

SHARP**SERVICE MANUAL**

230-90433927



LCD COLOUR
TELEVISION (Display)

MODEL **LC37GD7E**

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

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SHARP CORPORATION



Note on electrostatic shielding

1. Electrostatically shielded MOS workstations

Components sensitive to electrostatic discharge must be handled at workstation with electrostatic shielding. An electrostatically shielded MOS workstation is fitted with discharge resistor which earth all conductive materials, including the technician working there. Dielectrics are discharged by air ionisation. The use of soldering irons and measuring equipment at shielded workstation is only possible in conjunction with isolating transformer in each of the devices used. Measuring equipment chassis are also earthed with discharge resistors.

2. Shielded packaging using conductive materials

To protect against electrostatic charges, electrically conductive plastics are used for packaging and transport purposes. Conductive plastics are available in the form of transparent protective bags, foam plastic, film sheeting or containers. Sensitive components requiring the use of protective packaging must only be packed and unpacked at shielded workstations.

Safety warnings/regulations

1. The repair, modification and testing of mains-operated electronic devices and their accessories must only be performed by qualified persons.
2. It is necessary to follow the regulations and safety warnings to VDE 0701, part 200, as well as the regulations and safety warnings applicable in the country concerned.
3. VDE 0701, Part 2, contains regulations on the repair, modification and testing of mains-operated electronic devices and their accessories.
4. Before delivery, the device and the connecting leads (including any protective earth conductor fitted) must undergo visual inspection, and the insulation resistance and the equivalent leakage current must be measured according to VDE 0701, part 200. The low-resistance continuity of the protective earth conductor must be verified by measurement to VDE regulation 0701, part 1.
5. The regulations of the country concerned must also be observed.
6. Only genuine parts must be used for replacing components marked with the symbol .

Precautions for using lead-free solder

1. Employing lead-free solder

„LCD CONT PWB“, „TMDS RX PWB“, „KEY PWB“, „R/C LED PWB“, „MOTOR PWB“, „INV PWB“, „POWER PWB“ of this model employs lead-free solder. The LF symbol indicates lead-free solder, and is attached on the PWBs and service manuals. The alphabetical character following LF shows the type of lead-free solder. Example:

LF a
Sn-Ag-Cu

~~Pb~~

Indicates lead-free solder of tin, silver and copper.

2. Using lead-free wire solder

When fixing the PWB soldered with the lead-free solder, apply lead-free wire solder. Repairing with conventional lead wire solder may cause damage or accident due to cracks.

As the melting point of lead-free solder (Sn-Ag-Cu) is higher than the lead wire solder by 40°C, we recommend you to use a dedicated soldering bit, if you are not familiar with how to obtain lead-free wire solder or soldering bit, contact our service station or service ranch in your area.

3. Soldering

As the melting point of lead-free solder (Sn-Ag-Cu) is about 220°C which is higher than the conventional lead solder by 40°C, and as it has poor solder wettability, you may be apt to keep the soldering bit in contact with the PWB for extended period of time. However, Since the land may be peeled off or the maximum heat-resistance temperature of parts may be exceeded, remove the bit from the PWB as soon as you confirm the steady soldering condition.

Lead-free solder contains more tin, and the end of the soldering bit may be easily corroded. Make sure to turn on and off the power of the bit as required. If a different type of solder stays on the tip of the soldering bit, it is alloyed with lead-free solder. Clean the bit after every use of it.

When the tip of the soldering bit is blackened during use, file it with steel wool or fine sandpaper.

Lead-free wire solder for servicing

Be careful when replacing parts with polarity indication on the PWB silk.

Part No.	★	Description	Code
ZHNDai123250E	J	φ 0.3mm 250g(1roll)	BL
ZHNDai126500E	J	φ 0.6mm 500g(1roll)	BK
ZHNDai12801KE	J	φ 1.0mm 1kg(1roll)	BM

Rear panel removal

1. Place the set on a clean and soft base.
2. Open the screws (fig. 1 and 2).
3. Mount stand for serviceposition.



Fig. 1

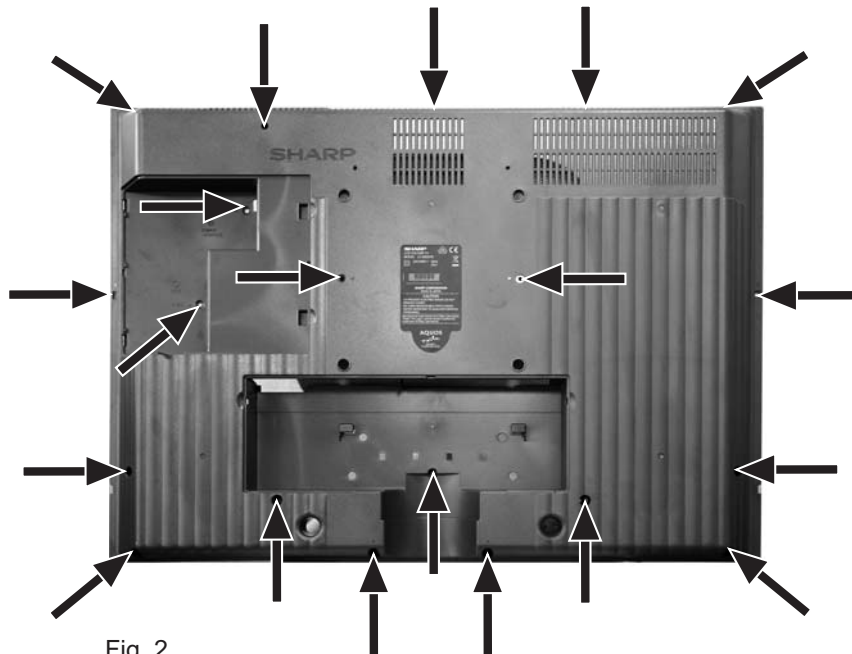
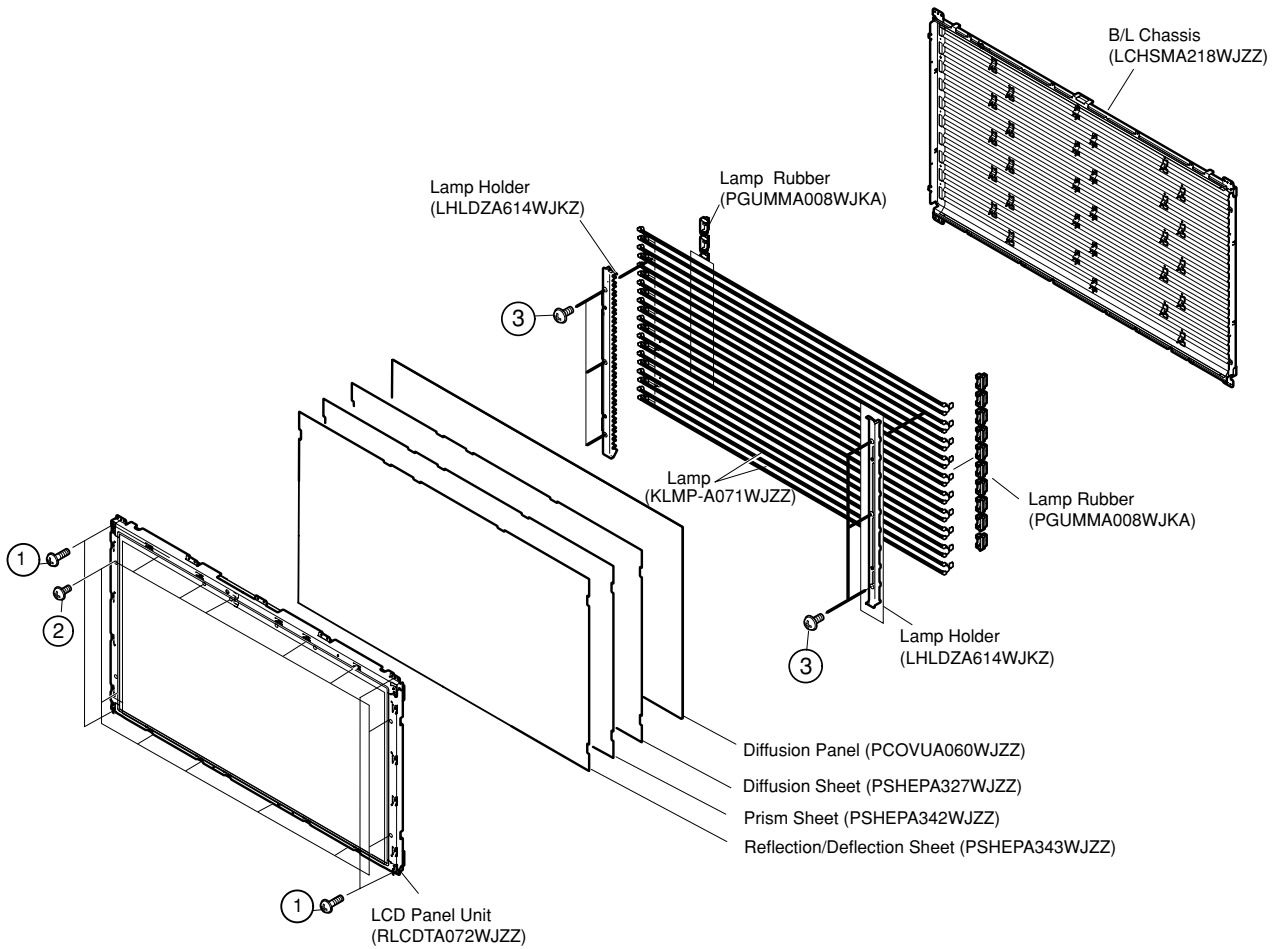


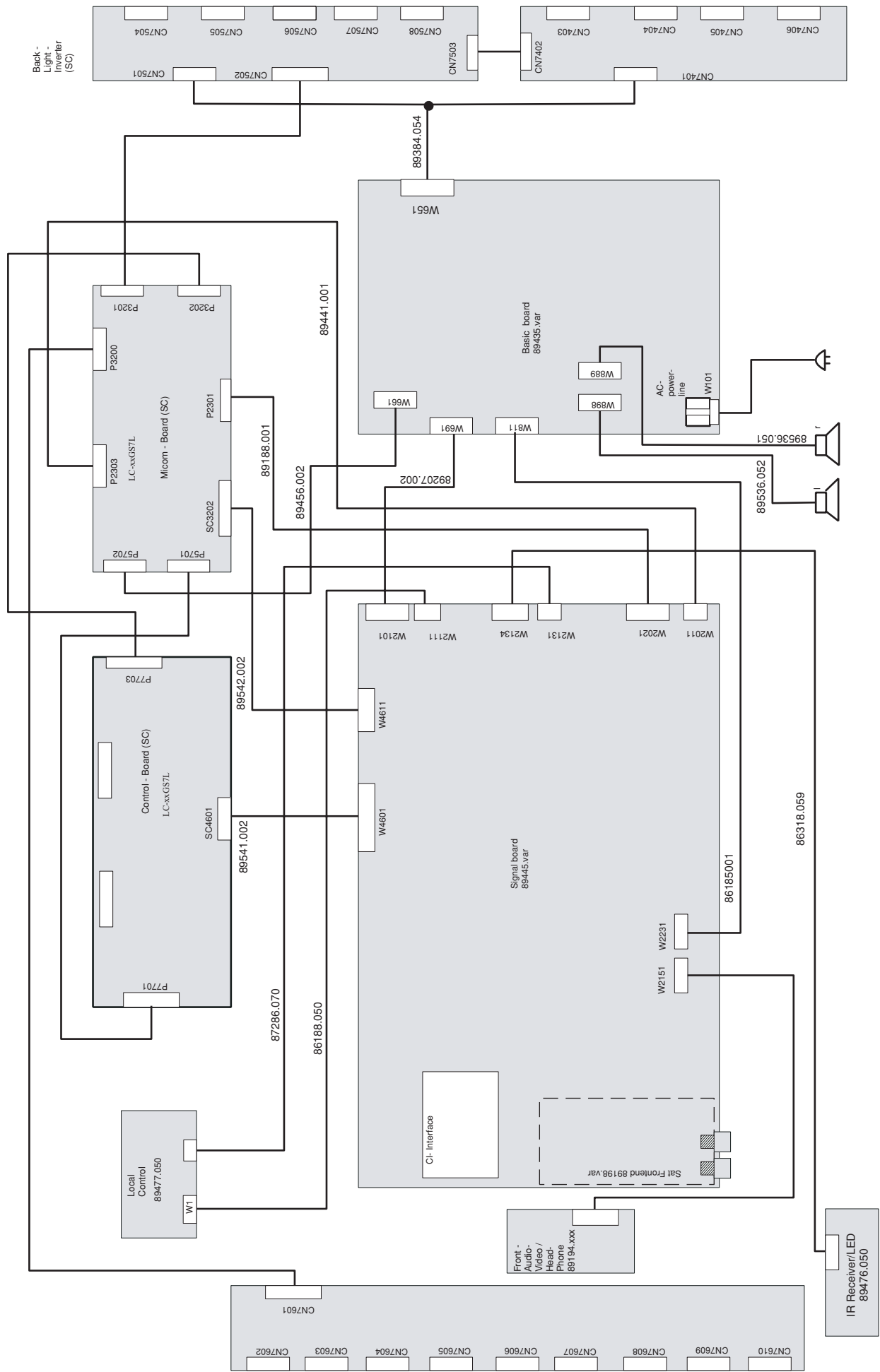
Fig. 2

REMOVING OF MAJOR PARTS

1. Remove the 4 lock screws , 13 lock screws from the LCD Panel Unit, and detach the LCD Panel Unit.
2. Detach the Reflection/Deflection Sheet, Prism Sheet, Diffusion Sheet, and Diffusion Panel.
3. Remove the 6 lock screws from the Lamp Holder, and detach the Lamp Holder.



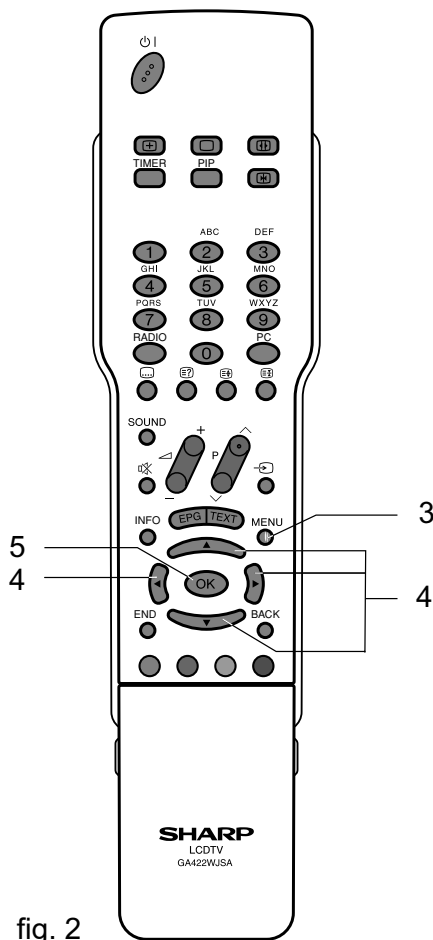
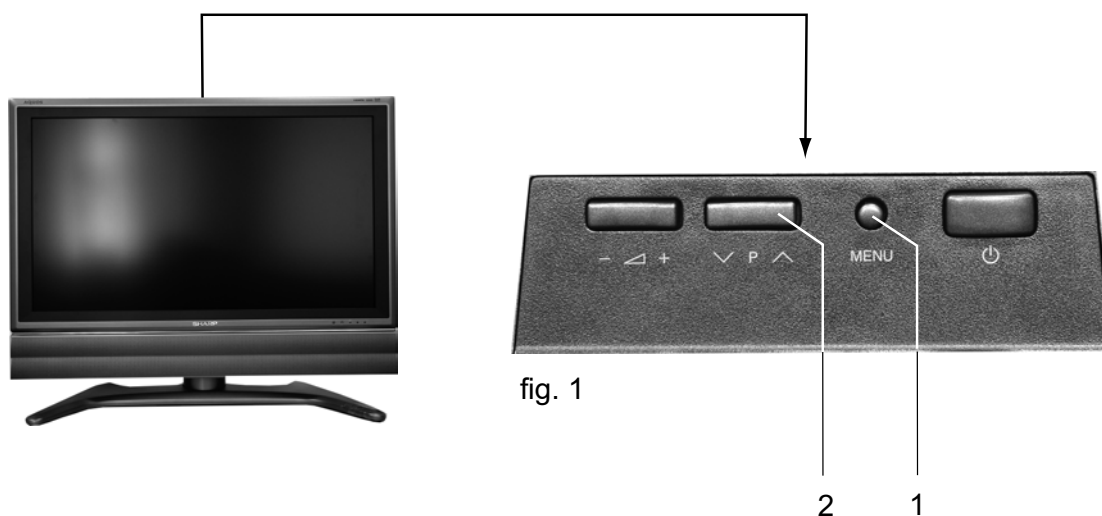
Wiring diagram L2650



Enter service mode

Pre-setup position: set is in TV mode

1. Press MENU button on top of the TV set to enter menu „direct control on tv set“ (fig. 1, pos. 1)
2. Press button „P ^“ until „service“ is shown in menu (fig. 1, pos. 2)
3. When service appears press the MENU button on the remote control within 1 sec (fig. 2, pos. 3). Service menu appears.
4. Step with cursor buttons on remote control (fig. 2, pos. 4) through the service menu to change settings.
5. Each modification of any value has to be memorized with the „OK“ button on remote control (fig. 2, pos. 5).



ADJUSTMENT PROCEDURES

The adjustment values are set to the optimum conditions at the factory before shipping. If a value should become improper or an adjustment is required due to part replacement, make an adjustment according to the following procedure.

1. Display adjustment procedure

1. Adjustment procedure

Enter the display process mode and then adjust COM BIAS.

Caution: Use due care in handling the information described here lest your users should know how to enter the adjustment process mode. If the settings are tampered in this mode, unrecoverable system damage may result.

2. Adjustment process mode key operation table

Key	Function 1 (when on the left side of a page)	Function 2 (when changing a numeric value)
Cursor UP	Moving up by one item or moving to the previous page (when at the top)	Incrementing the adjustment value by one or executing the item (in the case of W or R items)
Cursor DOWN	Moving down by one item or moving to the next page (when at the bottom)	Decrementing the adjustment value by one or executing the item (in the case of W or R items)
Cursor RIGHT	Moving to the right by one item or moving to another page (in the case of the initial page)	Moving to the right by one item
Cursor LEFT	Moving to the left by one item or moving to another page (in the case of the initial page)	Moving to the left by one item
OK	Test pattern off	Executing the item (in the case of W or R items)
INPUT mark of the R/C (caution required)	Moving to the next page	Moving to the next page
CH (∧)	Moving up by one item or moving to the previous page (when at the top)	Incrementing the adjustment value by one or executing the item (in the case of W or R items)
CH (∨)	Moving down by one item or moving to the next page (when at the bottom)	Decrementing the adjustment value by one or executing the item (in the case of W or R items)
VOL (+)	Moving to the right by one item or moving to another page (in the case of the initial page)	Moving to the right by one item
VOL (−)	Moving to the left by one item or moving to another page (in the case of the initial page)	Moving to the left by one item

3. COM BIAS adjustment

Shift to the [COM BIAS] item with the cursor UP/DOWN key and select a numeric value with the cursor RIGHT/LEFT key.

Changing the numeric value with the cursor UP/DOWN key will make appear the test pattern. Make an adjustment so that the flicker near the center of the screen is minimized.

4. Lamp error detection

4-1. Feature description

This liquid-crystal color TV incorporates a lamp error detection feature (lamp error detection) that automatically turns OFF the power for safety under abnormal lamp or lamp circuit conditions.

If anything is wrong with the lamp or lamp circuit or when the lamp error detection feature is activated for some reason, the following will result.

The power of TV main body is turned OFF about six seconds after it is turned ON. (The power LED on the front of the TV turns red from green and keeps blinking in red (ON for 250ms and OFF for 1sec).

If occurs five times consecutively, it becomes impossible to turn ON the power. (The power LED keeps blinking in red (ON for 250ms and OFF for 1sec).

4-2. Measures

1) Checking with lamp error detection OFF

Refer to **Entering and exiting the adjustment process mode** in the section 10-2 to enter the display process mode.

If there is a problem with a lamp or a lamp circuit, the lamp will go out. (The power LED is green.)

Then, you can check the operation to see if the lamp and lamp circuit are abnormal.

2) Resetting the lamp error count

After you have finished checking whether the lamp and lamp circuit are abnormal, reset the lamp error count. If a lamp error is detected five consecutive times, the power cannot be turned on.

Therefore, move to the [L ERR RESET] line, the 5th line on the first page of the "Display process mode" using the Cursor UP/DOWN key. Then, reset the [L ERR RESET] value using the Cursor RIGHT/LEFT key. In this case, press the Cursor UP/DOWN key to reset it to "0".

Table of contents of adjustment process mode Page 0

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	S	E	R	V	I	C	E	I		2	6	G	A	7	L	
1	→	C	S	L	E	V	E	L				0	0	0		
2		C	O	M	B	I	A	S				0	0	0	0	
3		E	R	R		S	T	B	Y			0	0	0		
4		L		E	R	R		R	E	S	E	T		0		
5		L	C	D												
6		P	A	T	T	E	R	N								
7		F	A	N												
8		O	T	H	E	R										
9		V	E	R		M	2	A	2			B	1	0	1	

Values specific to each Display

Resetting to "0"

After resetting to "0", perform an operational check to ensure that the lamp error detection feature is not activated.

5. List of process adjustment modes (Display)

(Examples)

Table of contents of adjustment process mode Page 0

0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	S	E	R	V	I	C	E	I	2	6	G	A	7	L	
1	→	C	S	L	E	V	E	L			0	0	0		
2		C	O	M	B	I	A	S			0	0	0	0	
3		E	R	R		S	T	B	Y			0	0	0	
4		L	E	R	R		R	E	S	E	T		0		
5		L	C	D											
6		P	A	T	T	E	R	N							
7		F	A	N											
8		O	T	H	E	R									
9		V	E	R		M	2	A	2		B	1	0	1	

LCD Page 1

0	1	2	3	4	5	6	7	8	9	A	B	C	D
0	L	C	D	1									
1	→	P	W	M	C	T	R	L					0
2		P	W	M	F	R	E	Q		0	0	0	0
3		P	W	M	D	U	T	Y		0	0	0	0
4		O	S	C	F	R	E	Q		0	0	0	0
5		O	S	C	D	U	T	Y		0	0	0	0
6		P	M	C	G		M	O	D	E			0
7		P	M	C	G		S	S	C				0
8		D	A	T			D	R	V				0
9		C	L	K			D	R	V				0

LCD Page 2

0	1	2	3	4	5	6	7	8	9	A	B	C	D
0	L	C	D	2									
1	→	M	O	D	E			6	0	H	Z		0
2		Q	S		S	W							0
3		Q	S		D	1				0	0	0	
4		Q	S		D	2				0	0	0	
5		Q	S		D	3				0	0	0	
6		Q	S		D	4				0	0	0	
7		Q	S		D	5				0	0	0	
8		Q	S		D	6				0	0	0	
9		Q	S		D	7				0	0	0	

LCD Page 3

0	1	2	3	4	5	6	7	8	9	A	B	C	D
0	L	C	D	3									
1	→	O	P	C		0						0	0
2		O	P	C		1						0	0
3		O	P	C		2						0	0
4		O	P	C		3						0	0
5		O	P	C		4						0	0
6		O	P	C		5						0	0
7		O	P	C		6						0	0
8		O	P	C		7						0	0
9		O	P	C		8						0	0

LCD Page 4

0	1	2	3	4	5	6	7	8	9	A	B	C	D
0	L	C	D	4									
1	→	O	P	C		9						0	0
2		O	P	C	1	0						0	0
3		O	P	C	1	1						0	0
4		O	P	C	1	2						0	0
5		O	P	C	1	3						0	0
6		O	P	C	1	4						0	0
7		O	P	C	1	5						0	0
8		O	P	C	1	6						0	0
9													

LCD Page 5

0	1	2	3	4	5	6	7	8	9	A	B	C	D
0	L	C	D	5									
1	→	C	S	0	0								0
2		V	H	2	4	7				0	0	0	0
3		V	H	1	9	1				0	0	0	0
4		V	H	1	5	9				0	0	0	0
5		V	H	1	2	7				0	0	0	0
6		V	H	9	5					0	0	0	0
7		V	H	6	3					0	0	0	0
8		V	H	3	1					0	0	0	0
9		V	H	0						0	0	0	0

LCD Page 6

0	1	2	3	4	5	6	7	8	9	A	B	C	D
0	L	C	D	6									
1	→	V	L	0						0	0	0	0
2		V	L	3	1					0	0	0	0
3		V	L	6	3					0	0	0	0
4		V	L	9	5					0	0	0	0
5		V	L	1	2	7				0	0	0	0
6		V	L	1	5	9				0	0	0	0
7		V	L	1	9	1				0	0	0	0
8		V	L	2	4	7				0	0	0	0
9													

PATTERN Page 1

0	1	2	3	4	5	6	7	8	9	A	B	C	D
0	P	A	T	T	E	R	N						
1	→	P	A	T	T	E	R	N	1			0	0
2		P	A	T	T	E	R	N	2			0	0
3		P	A	T	T	E	R	N	3			0	0
4		P	A	T	T	E	R	N	4			0	0
5		P	A	T	T	E	R	N		0	0	0	0
6													
7													
8													
9													

PATTERN Page 2

0	1	2	3	4	5	6	7	8	9	A	B	C	D
0	P	O	R	T									
1	→	P	1	4		0	0	0	0	H	0	0	0
2		P	2	2		0	0	0	0	H	0	0	0
3		P	3	0		0	0	0	0	H	0	0	0
4		P	3	8		0	0	0	0	H	0	0	0
5		P	4	6		0	0	0	0	H	G	0	0
6		P	5	4		0	0	0	0	H	0	0	0
7		P	6	2		0	0	0	0	H	0	0	0
8		P	7	0		0	0	0	0	H	A	A	A
9													

Table of contents of process mode Page 0

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	S	E	R	V	I	C	E	I		2	6	G	A	7	L	
1	→	C	S	L	E	V	E	L				0	0	0		
2		C	O	M	B	I	A	S			0	0	0	0		
3		E	R	R		S	T	B	Y			0	0	0		
4		L		E	R	R		R	E	S	E	T		0		
5		L	C	D												
6		P	A	T	T	E	R	N								
7		F	A	N												
8		O	T	H	E	R										
9		V	E	R		M	2	A	2		B	1	0	1		

MOTOR Page 1

	0	1	2	3	4	5	6	7	8	9	A	B	C	D
0	F	A	N											
1	→	R	E	S	E	R	V	E					0	
2		R	E	S	E	R	V	E					0	
3		R	E	S	E	R	V	E					0	
4		R	E	S	E	R	V	E					0	
5		R	E	S	E	R	V	E					0	
6		R	E	S	E	R	V	E					0	
7		R	E	S	E	R	V	E					0	
8		R	E	S	E	R	V	E					0	
9		T	E	M	P		E	R	R		0	0	0	

OTHER Page 1

	0	1	2	3	4	5	6	7	8	9	A	B	C	D
0	O	T	H	E	R	1								
1	→	C	L	R		M	O	D	E				0	
2												W	0	
3		L	C	D		D	A	T	A		0	0	0	0
4											R	0	W	0
5		E	E	P		M			0	0	0	0	0	0
6											R	0	W	0
7														
8														
9														

OTHER Page 2

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	O	T	H	E	R	2		I		2	6	G	A	7	L	
1	→	L		E	R	R		S	T	O	P				0	
2		M	O	D	E	L									0	
3		R	E	M	O	C	O	N							0	
4																
5		Q	S	T	E	M	P		A	D		0	0	0		
6		O	P	C								0	0	0		

OTHER Page 3

	0	1	2	3	4	5	6	7	8	9	A	B	C	D
0	O	T	H	E	R	3								
1	→	T	I	M	E	O	U	T		O	N			0
2		P		E	R	R		S	T	O	P			0
3		L	V	D	S		P	D						0
4			0	0	0	0	0	0	0	0	0	0	0	0
5			0	0	0	0	0	0	0	0	0	0	0	0
6		E	T	C		0	0	0	0	0	0	0	0	0
7		R	S	T	C	N	T			0	0	0	0	0
8		P	O	W	C	N	T			0	0	0	0	0
9														

Process adjustment list

1st level	Page	Item	Setting range	Initial value
Contents	1	CSLEVEL	0~128	00
		COM BIAS	0~1024	800
		ERR STBY	0~Z	0
		L ERR RESET	Zero clear	0
LCD	1	PWM CTRL	0~7	7
		PWM FREQ	0~4095	1289
		PWM DUTY	0~4095	0
		OSC FREQ	0~4095	77
		OSC DUTY	0~4095	70
		PMCG MODE	0~3	0
		PMCG SSC	0~3	0
		DAT DRV	0~7	0
		CLK DRV	0~7	0
	2	MODE	50Hz, 60Hz, PC	60Hz
		QS SW	0~1	1
		QS D1	0~255	84(26") 84(37")
		QS D2	0~255	98(26") 98(37")
		QS D3	0~255	109(26") 109(37")
		QS D4	0~255	123(26") 123(37")
		QS D5	0~255	135(26") 135(37")
		QS D6	0~255	147(26") 147(37")
		QS D7	0~255	160(26") 160(37")
	3	OPC 0	0~85	0(26") 0(37")
		OPC 1	0~85	5(26") 1(37")
		OPC 2	0~85	9(26") 3(37")
		OPC 3	0~85	13(26") 5(37")
		OPC 4	0~85	18(26") 9(37")
		OPC 5	0~85	22(26") 13(37")
		OPC 6	0~85	27(26") 17(37")
		OPC 7	0~85	31(26") 21(37")
	4	OPC 8	0~85	36(26") 26(37")
		OPC 9	0~85	40(26") 30(37")
		OPC 10	0~85	45(26") 34(37")
		OPC 11	0~85	49(26") 39(37")
		OPC 12	0~85	53(26") 44(37")
		OPC 13	0~85	58(26") 49(37")
		OPC 14	0~85	62(26") 54(37")
		OPC 15	0~85	67(26") 58(37")
	5	OPC 16	0~85	71(26") 62(37")
		CS 00	0~2	0
		VH 247	0~1023	916(26") 912(37")
		VH 191	0~1023	765(26") 763(37")
		VH 159	0~1023	742(26") 738(37")
		VH 127	0~1023	719(26") 717(37")
		VH 95	0~1023	704(26") 703(37")
		VH 63	0~1023	687(26") 683(37")
	6	VH 31	0~1023	666(26") 659(37")
		VH 0	0~1023	537(26") 529(37")
		VL 0	0~1023	482(26") 472(37")
		VL 31	0~1023	352(26") 352(37")
		VL 63	0~1023	323(26") 321(37")
		VL 95	0~1023	304(26") 300(37")
		VL 127	0~1023	286(26") 283(37")
		VL 159	0~1023	260(26") 258(37")
		VL 191	0~1023	233(26") 231(37")
		VL 247	0~1023	64(26") 65(37")

Monitoring process ERR STBY table

Outline: Communication and power failures detected by the monitoring microcomputer are saved to EEPROM, and the final states of the errors can be checked in the monitoring process.

Location: Line 3 in page 0 of the monitoring process, ERR STBY field

If there is no error, 0 appears. Value can be cleared to 0 using the cursor.

Indication	Error description	
1	Start-up communication error 1	Not used
2	Start-up communication error 2	Initial communication from the main CPU is not received.
3	Start-up communication error 3	Only initial communication is received.
4	Start-up communication error 4	To the point where communication settings are received
5	Start-up communication error 5	To the point where notice for completion of initialization is received
6	Start-up communication error 6	To the point where version notification is received
7	Start-up communication error 7	To the point where start-up information is received
8	Start-up communication error 8	To the point where reply to start-up info is received
9	Start-up communication error 9	To the point where time-out settings are received
A	Communication error A	REQ time-out
B	Communication error B	Restart time-out
C	Communication error C	Ending sequence time-out
D	Communication error D	Timer-programmed start-up time-out (during ending operation)
E	Communication error E	Not used
F	Communication error F	Not used
G	Communication error G	High-speed ending sequence time-out
H	Communication error H	Regular communication time-out
I	Communication error I	Standby transition time-out
J	Communication error J	Not used
K	Communication error K	Not used
L	Red power LED flashing 0	Not used
M	Red power LED flashing 1	Lamp failure
N	Red power LED flashing 2	Not used
O	Red power LED flashing 3	Not used
P	Red power LED flashing 4	Not used
Q	Red power LED flashing 5	Monitor temperature failure
R	Red power LED flashing 6	Not used
S	Red power LED flashing 7	Not used
T	Green LED flashing 1	15 V failure
U	Green LED flashing 2	Not used
V	Green LED flashing 3	CSEN1 failure
W	Green LED flashing 4	VSH 3.3 V failure
X	Green LED flashing 5	LCD controller 3.3 V failure
Y	Green LED flashing 6	Not used
Z	Main failure	Error standby request from the main CPU

Red power LED: P2304 (RM), pin 8

Green LED: TP2301 (IC2301, pin 22)

Option Bytes table with service relevant option bits

Please do not change others!

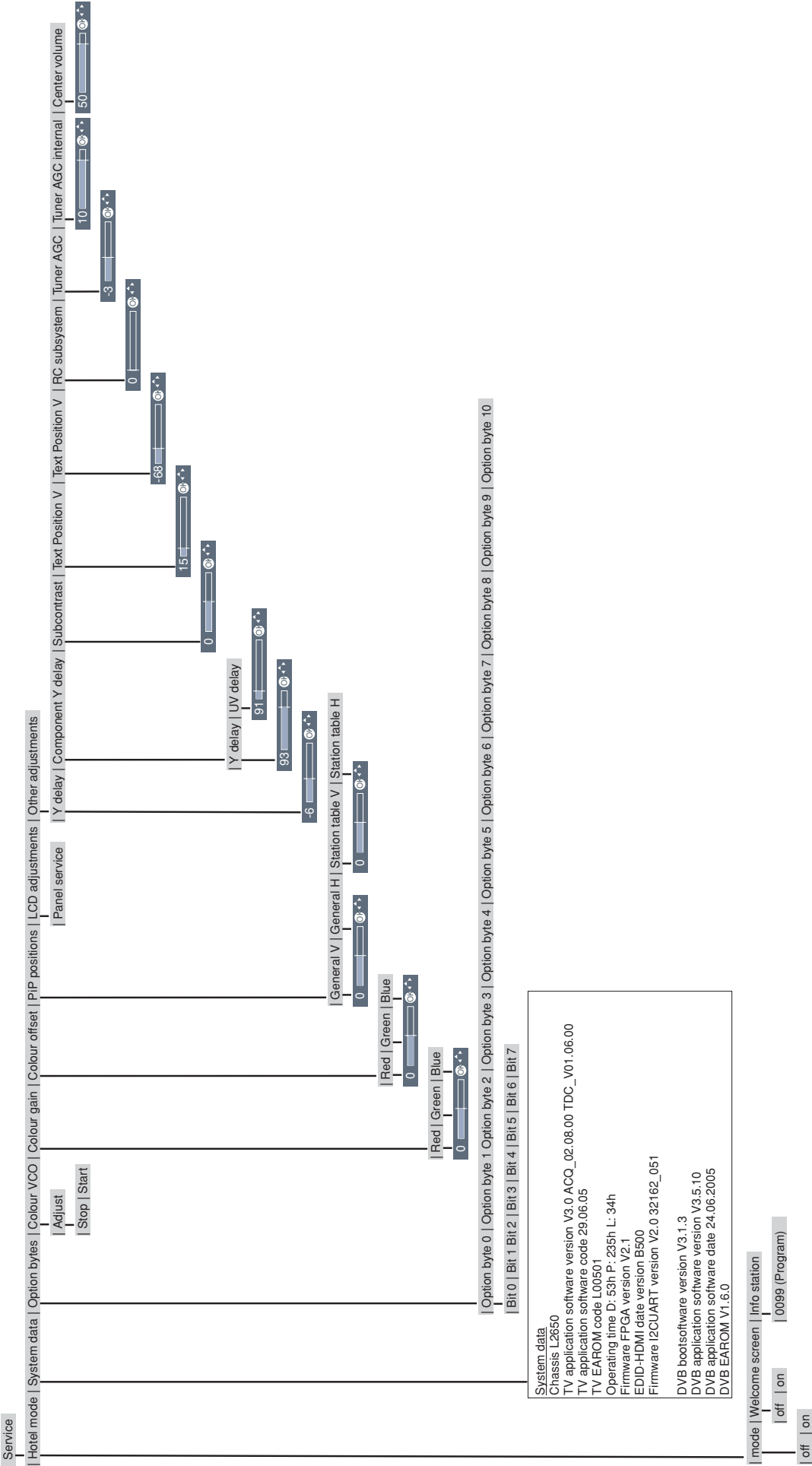
Alignment function	Bit No.	Meaning	“0”	“1”	Adjusted in the factory
Byte 0	1	EPG Program filter	On	Off	0
	5	Blue picture w/o signal	Yes	No	0
Byte 1	1	Effect lights for background	Off	On	0
	2	WSS detection in VCR mode	No	Yes	1
	3	AMD (Autom. movie detection)	On	Off	0
	7	At VGA mode sync failure	Change to TV mode	Keep VGA mode	1
Byte 2	6	Reaction time of remote commands	Fast	Slow	0
	7	WSS (Wide Screen Signalling Bits)	Evaluated	Not evaluated	0
Byte 3	0	Picture ratio (standard values)	Evaluated	Blocked	0
	2	Analogue EPG night update	Off	On	1
	4	Switching off after channel closes	Yes	No	0
	5	Factory mode	Off	On	0
	2	Power down cycle	Yes	No	0
Byte 4	4	AMD switch over	Fast	Langsam Slow	1
	5	Warm up mode	On	Off	1
Byte 5	2	PIP within EPG	Last program	Selected program “how”	0
	3	Sound AURO	SPDIF-out TV	Analogue sound from SCART 2	0

Option Bytes table with service relevant option bits

Please do not change others!

Alignment function	Bit No.	Meaning	“0”	“1”	Adjusted in the factory
Byte 6	6	Indication of movie mode	No	Yes (with colour of Side Panels)	0
	7	VT subpages mode	Normal	Off	0
Byte 7	4	Assessing the 16:9 switching voltage	Yes	No	0
Byte 8	0	Factory mode	No	Yes	0
	7	Auto on (warm up)	Off	On	0
Byte 9	0	Chroma output at SCART 1	Pin 7	Pin 15	0
	1	Ext. receiver in VT mode	Autom. channel recognition	No autom. recognition	0
	4	DISEqC Telegram	Also for not used switch	Only for not used switch	0
	7	Rotation control via RC5	No	Yes	1
	0	Signal peaks (only LCD)	Yes	No	0
Byte 10	1	Program change in overview	Possible	Not possible	0
	4	Correction of MSP registers	No	Yes (Sound problem Luxembourg)	0

Service menu L2650 (LCD)



Software loading

1 Update of the main software (operating software)

To update the software you need the „Programmer“ (Article number 87933.050) and the update program „Flasher“.

Please act according the following procedure:

- Switch off the TV set with the mains switch.
- Connect the Programmer with the L-Link cable to the service socket at the TV.
- Start the Flasher software and select „Step 2“ (see fig. 1).

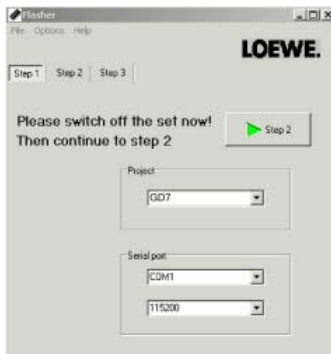


fig. 1

- Switch on the TV set with the mains switch now (TV does not switch on under this condition) - see fig. 2.



fig. 2

- Software automatically jumps to „Step 3“
- Now select „Auto program“ (see fig. 3) ...



fig. 3

...and select the new software version (see fig. 4).

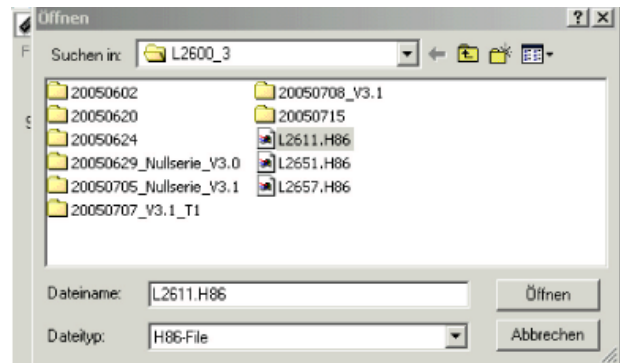


fig. 4

With selecting „Open“ the update process will start automatically (see fig. 5).



fig. 5

- With the message „Flash programmed“ the update is finished (fig. 6).



fig. 6

- Switch off the TV with the mains switch and disconnect the L-Link cable.

2. Update of the DVB Bootload- / Application software

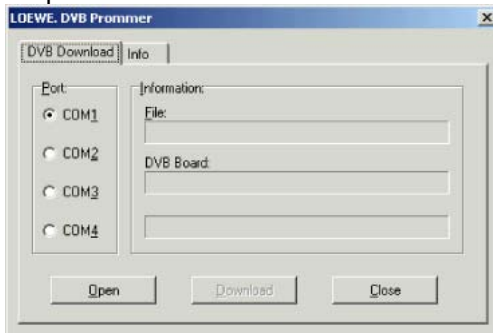
To update the software you need the „Programmer“ (Article number 87933.050) and the update program „Dvbpromer“.

Please act according to steps 1-6 shown in the following pictures:

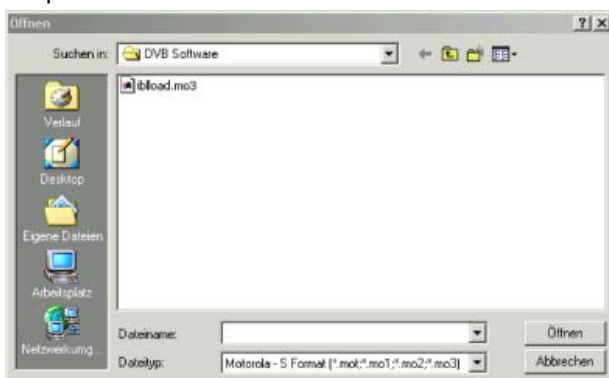
Step 1



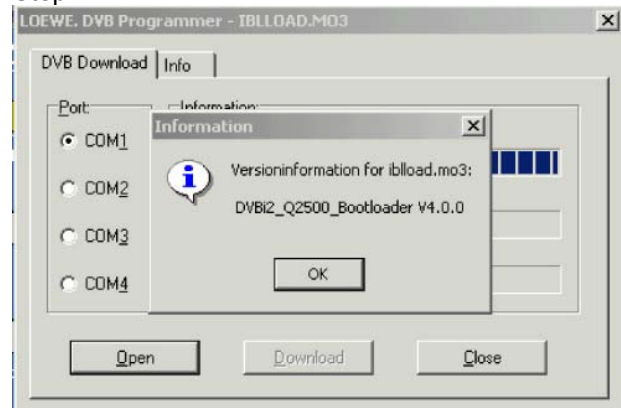
Step 2



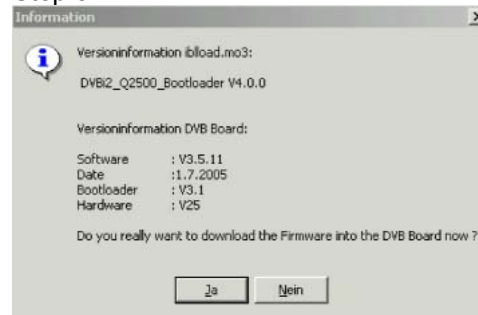
Step 3



Step 4



Step 5



Step 6



Components Chart

L2650 LC-GD7			Art. No.	65482. V00	65482. V10	65482. V20	65482. V30	65482. V40
			TV set type	AQUOS LC-37GD7E	AQUOS LC-37GD7F	AQUOS LC-37GD7K	AQUOS LC-37GD7R	AQUOS LC-37GD7 I
Components	Signal Board	89445	058	x	x		x	x
			059			x		
	Basic Board	89435	081	x	x	x	x	x
	Connector Board	89194	050	x	x	x	x	x
	IR Receiver/LED	89476	050	x	x	x	x	x
	Control Unit Sharp	89477	050	x	x	x	x	x
	LCD Panel Kit LC-37GS7L	89439	002	x	x	x	x	x
	Tuner/IF	89222	064	x	x	x	x	x
	DVB-S Frontend	89189	055	x	x		x	x
	Remote Control Sharp GD7	32534	x	x	x	x	x	x
Retrofit Kit	DVB-S	89361	055	x	x		x	x

Technical specifications

LC-37GD7E

General

Art. No.	65482
Dimensions with tablestand (mm)	917x707x307 (WxHxD)
Dimensions without tablestand (mm)	917x645x108 (WxHxD)
Picture format	16:9
Screen diagonal in cm	94
Picture resolution	1366x768
Contrast ratio	800:1
Viewing angle horizontal and vertical	170°
Weight with tablestand (kg)	approx. 24.2
Rated power IEC 62087 (watts)	100
Power consumption on standby (watts)	< 3
Ambient temperature (°C)	5-35
Relative humidity	20 ... 80% (no condensation)
Air pressure (hPa)	800 ... 1114 (0 ... 2000m above sea level))
Chassis	L 2650
Power supply	220 V - 240 V / 50-60 Hz
Tuner VHF/UHF/cable	
Hyperband 8 MHz	41 MHz to 860 MHz
Station memory	1680
TV standards	B/G, I, L, D/K, M, N
Colour standards	PAL SECAM, NTSC-V, PAL 60 Hz
Audio standards	mono/stereo/2-sound Nicam B/G, I, L, Virtual Dolby
Audio rated output (watts)	2 x 20 / 6 Ohm
Analogue teletext	TOP/FLOF Level 2.5
Teletext page memory	3500
Digital teletext (UK only)	MHEG-5

Connections

Jack 3.5 mm	Headphone 32-2000 Ohm
EXT 4 Mini-DIN	Video IN Y/C (S-VHS/Hi 8)
EXT 4 (yellow)	Video IN CVBS (VHS/8 mm)
Cinch (white/red)	Audio IN L/R
IEC socket 75 ohms (*5V/80mA)	Antenna/cable/DVB-T
*F socket 75 ohms 13/18V/350 mA	ANT-SAT
EXT 1	Video IN Y/C (S-VHS/Hi 8) CVBS (VHS/8 mm) RGB, YUV
	Video OUT CVBS Y/C (with SVHS AV link only)
	Audio IN L/R
	Audio OUT L/R
EXT 2	Video IN Y/C (S-VHS/Hi 8) CVBS (VHS/8 mm)
	Video OUT CVBS (VHS/8 mm) Y/C (S-VHS/Hi 8)
	Audio IN L/R
	Audio OUT L/R
Cinch	Audio IN max. 2Vrms Center
2 x Cinch	Audio IN L/R
2 x Cinch	Audio OUT L/R
EXT 3 (Cinch)	COMPONENT IN Cb/Pb signal
	COMPONENT IN Cr/Pr signal
	COMPONENT IN Y signal
Cinch	Digital Audio IN (SPDIF) digital sound
Cinch	Digital Audio OUT (SPDIF) digital sound
EXT 5	Digital video/audio IN type A 19-pole
	digital picture and sound
PC IN	VGA/XGA IN PC/STB picture signal
Mini DIN	Service/S-Link

* Devices with digital satellite tuner

Spare parts list

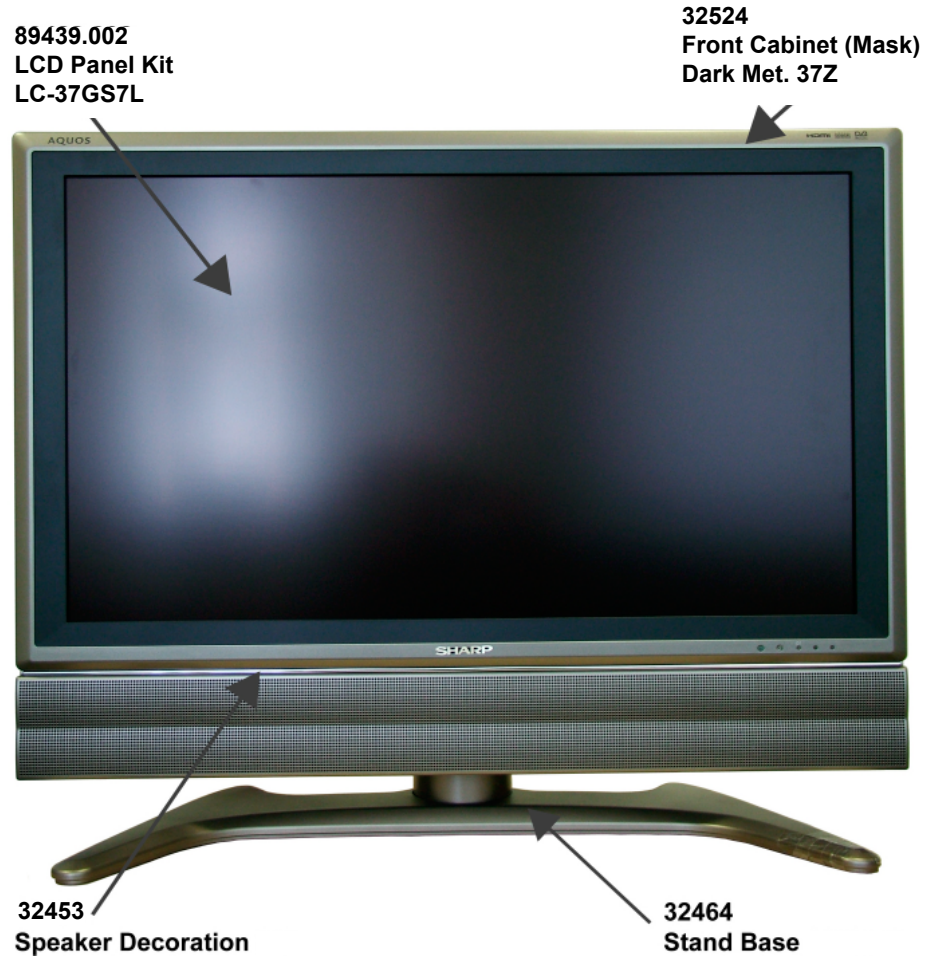
AQUOS LC-37GD7E

Art.-No. 65482.00-40

Item N°.	Description	List Part N°.	Var.
UNITS			
300	Control Unit P.C.B SHARP GD7	L396-89477.050	
320	Connector Board P.C.B	L396-89194.050	
351	IR Receiver/LED P.C.B SHARP GD7	L396-89476.050	
710	LCD-Panel-Kit LC-37GS7L SHARP	L291-89439.002	
720	Basic-Board P.C.B L2650 37 SHARP	L396-89435.081	
721	Signal-Board P.C.B L2650H NIC/DVB-T EU	L396-89445.058	
721	Signal Board complete. L2650H NIC/DVB-T EU Sharp	L396-89445.058	V10
721	Signal Board complete. L2650H NIC/DVB-T EU Sharp	L396-89445.058	V30
721	Signal Board complete. L2650H NIC/DVB-T EU Sharp	L396-89445.058	V40
721	Signal Board complete. L2650H NIC/DVB-T UK Sharp	L396-89445.059	V20
930	DVB-S Frontend P.C.B L2600/L2650	L396-89189.055	
OPERATING INSTRUCTIONS			
500	Operation man. DE-GB-FR-IT-ES-NL Sharp GD7	L233-32414	V00
500	Operation man. DE-GB-FR-IT-ES-NL Sharp GD7	L233-32414	V10
500	Operation man. DE-GB-FR-IT-ES-NL Sharp GD7	L233-32414	V20
500	Operation man. DE-GB-FR-IT-ES-NL Sharp GD7	L233-32414	V40
500	Operation man. RU- Sharp GD7	L233-32414.030	V30
501	Operation man. PO-SE-FI-DK-NO Sharp GD7	L233-32414.010	V00
501	Operation man. PO-SE-FI-DK-NO Sharp GD7	L233-32414.010	V10
501	Operation man. PO-SE-FI-DK-NO Sharp GD7	L233-32414.010	V40
502	Operation man. PL-HU-CZ-SL Sharp GD7	L233-32414.020	V00
502	Operation man. PL-HU-CZ-SL Sharp GD7	L233-32414.020	V40
510	Guarantee card U.K. Sharp GD7	L224-32529	V20
510	Guarantee card Russ. Sharp GD7	L224-32530	V30
SET SUPPLEMENT			
500	Packing Case (Remot Contr./Man.)	L245-89587.050	
PACKING MATERIAL			
600	Packing Case	L245-89512.002	
610	Cushion-Set	L252-89511.050	
CONNECTING CABLES			
N101	Mains connection cable black 2500LG	L170-46655.001	V00
N101	Mains connection cable black 2500LG	L170-46655.001	V10
N101	Mains connection cable black 2500LG	L170-46655.001	V30
N101	Mains connection cable black 2500LG	L170-46655.001	V40
N101	Mains connection cable black 2500LG	L170-89378.001	V20
CABINET MOUNTING			
100	Speaker Unit right 26Z/32Z/37Z SHARP	L776-32462	
101	Speaker Unit left 26Z/32Z/37Z SHARP	L776-32461	
103	Ornamental Molding (Speaker)	L700-32453	
104	Adhesion Label SHARP 37Z	L700-32633	
112	Screw K4,0x14,0 Torx	L440-27723	
302	Control Unit, cpl., grey	L810-32527	
321	Holder (AV Connector) black	L602-89248.002	
619	Supporter (Stand)	L541-32460	
620	Stand	L484-32464	
711	Holder Panel right SHARP GD7E	L602-89451.001	
712	Holder Panel left SHARP GD7E	L602-89451.011	
713	Holder VESA SHARP GD7E	L602-89452.001	
730	Plasticband black	L190-28386	

G104 Mask dark met.
G110 Backcover black
G112 Cover (Common Interface GD7E)
G113 Rear Cover SHARP

L703-32524
L775-89448.002
L778-89449.002
L778-89462.002



89449.002
Covering black
Common Interface
GD7

89448.002
Backcover black
37Z



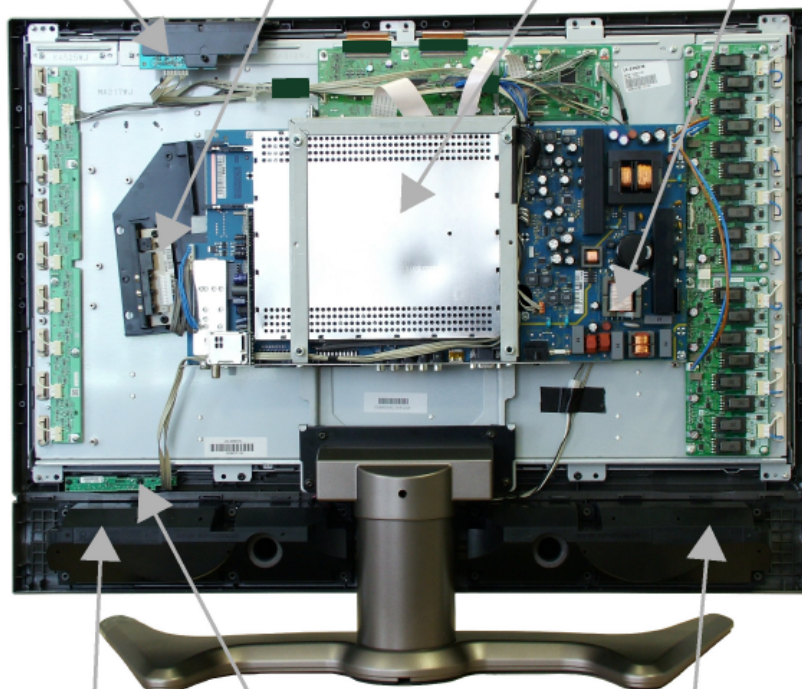
89462.002
Covering Backcover
black 32Z/37Z

89477.050
Operation Device
cpl. GD7

89194.050
Socket P.C.B
cpl.

89445.058 or 059
Signal Board P.C.B

89435.081
Basic Board



32462
Speaker Unit Right
26Z/32Z/37Z

89476.050
IR receiver/LED
P.C.B cpl.

32461
Speaker Unit Left
26Z/32Z/37Z

Retrofit Kit Digital SAT**Art.-Nr. 89361.055**

Item N°.	Description	List Part N°.	Var.
UNITS			
10	DVB-S Frontend complete L2650 P.C.B	L396-89189.055	055
OPERATING INSTRUCTIONS			
41	Indicating sheet EBA DVB-S (P) Frontend L26XX	L240-32237	055
SET SUPPLEMENT			
21	Connecting cable SAT extension 350lg.	L169-89261.001	055
PACKING MATERIAL			
31	Protective packing 165x205 für MOS-Baugr.	L253-11845	055
48	Foam plastics ledge 215x215x30mm	L411-74721.010	055
49	Foam plastics ledge 215x215x30mm	L411-74721.010	055
50	Packing case	L245-84978.002	055

DBVB-S Frontend**Art.-No. 89189.055**

Item N°.	Description	List Part N°.	Var.
UNITS			
U7001	DVB SAT tuner BS2S7VZ1302	L260-32104	055
COILS, SPEAKERS			
L7012	Choke DR-RA 22U K 1,2A	L298-28798.020	055
INTEGRATED CIRCUITS			
I7001	IC-VR 3V30 J 0A80 SO8 LD1117	L350-27212	055
I7002	IC-VR 3V30 G 2A50 HSOP8 L5973D	L350-31900	055
I7003	STV0299B TQFP64	L350-29049	055
I7004	LM 2903D SO08	L350-21674	055
QUARTZES			
X7001	Crystal Oscillator 4,000000 MHz HC49U	L385-17297	055
CAPACITORS			
C7050	1N K 630V 1206 X7R	L356-26774	055
RESISTORS			
R7044	Resistor 1R J 0207	L367-24709.020	055
SMD PARTS			
D7001	Diode 3,0A 40V SOD6 Schottky	L351-28529	055
D7002	Diode 1,0A 600V DO-214AC	L351-20547	055
D7003	Diode 3,0A 40V SOD6 Schottky	L351-28529	055
D7004	Diode DIOZD 6V2 G 0W3 SOT23 BZX84C	L351-26935	055
D7005	Diode 1,0A 600V DO-214AC	L351-20547	055
Q7001	Transistor 17NE03# TO252 17A0 30V NCH	L344-29257	055
Q7002	Transistor Digital SOT323 NPN 50V 70MA 47K+	L344-27270	055
Q7003	Transistor Digital SOT323 NPN 50V 70MA 47K+	L344-27270	055
Q7004	Transistor BC847BW SOT323	L344-27272	055
Q7005	Transistor BC847BW SOT323	L344-27272	055
Q7006	Transistor BC847BW SOT323	L344-27272	055
Q7007	Transistor BC847BW SOT323	L344-27272	055
Q7008	Transistor BC847BW SOT323	L344-27272	055

Connector Board**Art.-No. 89194.050-051**

Item N°.	Description	List Part N°.	Var.
SOCKETS			
W1351	Combination jack 9311A	L323-32139	050
W1351	Combination jack 9311F	L323-32139.003	051
W1451	Headphone socket 3,5mm horiz.	L323-24591	
SMD PARTS			
D1391	Diode BAS316 SOD323	L351-27952	
D1392	Diode BAS316 SOD323	L351-27952	
D1491	Diode BAS316 SOD323	L351-27952	
D1492	Diode BAS316 SOD323	L351-27952	

Tuner Art.-No. 89222.063-064

Item N°.	Description	List Part N°.	Var.
INTEGRATED CIRCUITS			
I4400	ICMOS TUA6034 TSSOP-38 Mixer-Osc.	L350-31388	
I4500	TDA9890 LQFP48 IF-Processor	L350-32289	063
I4500	TDA9898 LQFP48 IF-Processor	L350-32290	064
QUARTZES			
X4420	Quartz 4,000000 MHz HC49U3 low profile	L385-27752	
SMD PARTS			
Diodes			
D4104	Cap. BB689 SCD80	L351-31392	
D4105	Cap. BB565C-02V SC79	L351-31399	
D4147	Cap. BB689 SCD80	L351-31392	
D4153	Cap. BB689 SCD80	L351-31392	
D4154	Cap. BB565C-02V SC79	L351-31399	
D4173	Cap. BB689 SCD80	L351-31392	
D4204	Cap. BB659C-02V SC79	L351-31387	
D4205	Cap. BB565C-02V SC79	L351-31399	
D4247	Cap. BB659C-02V SC79	L351-31387	
D4253	Cap. BB659C-02V SC79	L351-31387	
D4273	Cap. BB659C-02V SC79	L351-31387	
D4305	Cap. BB565C-02V SC79	L351-31399	
D4347	Cap. BB565C-02V SC79	L351-31399	
D4353	Cap. BB565C-02V SC79	L351-31399	
D4373	Cap. BB565C-02V SC79	L351-31399	
Transistors			
Q4100	MOSFET SOT343 NCH BF2030W	L344-31382	
Q4200	MOSFET SOT343 NCH BF2030W	L344-31382	
Q4300	DUALMOSFET SOT363 BG3130	L344-31383	063
Q4300	BF1202 SOT143B N-CH MOSFET	L344-32426	064
Q4571	BC847BT SC75 0A1 45V NPN	L344-31393	

Basic Board**Art.-No. 89435.081**

Item N°.	Description	List Part N°.	Var.
COILS, SPEAKERS			
T161	Power transformer standby EF20-5,9	L490-30875	081
T342	Power transformer 2652.0008C L2650	L490-32512	081
COMMON MECHANICAL PARTS			
H101	Fuseholder spring for SI 5x20	L730-20061	081
H102	Fuseholder spring for SI 5x20	L730-20061	081
INTEGRATED CIRCUITS			
I141	ICE2A0565G P-DSO-16 OFF-LINE-CONTR.	L350-32092	081
I211	MC33262 SO-8 ONSEMI	L350-31489	081
I307	IC-VR 12V00 J 0A50 DPAK L78M12	L350-31891	081
I321	L6598 SO16N 600V 0A25 HVOLT.CONTR.	L350-32431	081
I351	IC-VR 2V5-24V F SOT23-3L TS2431	L350-31490	081
I361	IC-VR 2V5-24V F SOT23-3L TS2431	L350-31490	081
I511	L5994 TQFP32 power supply	L350-32099	081
I591	IC-VR 3V30 G 2A50 HSOP8 L5973D	L350-31900	081
I601	IC-VR 3V30 G 2A50 HSOP8 L5973D	L350-31900	081
I621	ICMOS ST755 SO8	L350-31267	081
I671	LM 2901 DT013TR SO-14 030	L350-27497	081
I821	MP7731 TSSOP20F audio AMP	L350-32249	081
I861	MP7731 TSSOP20F audio AMP	L350-32249	081
I941	MC33079 SO14	L350-28701	081
SOCKETS			
W101	Socket 2-pol. 1-row	L323-31223	081
W450	Contact ledge vert. 3-pol. nat.	L326-20054	081
W898	Contact ledge vert. 3-pol. gr.	L326-29784	081
TRANSISTORS			
10	20A 500V TO220FP POWMOS-NCH	L346-31643	081
10	POWMOS TO220FP NCH 550V 8A	L346-32175	081
Q224	20A 500V TO220FP POWMOS-NCH	L346-31643.Y27	081
Q334	POWMOS TO220FP NCH 550V 8A	L346-32175.Y27	081
Q336	POWMOS TO220FP NCH 550V 8A	L346-32175.Y27	081
DIODES			
10	Diode STTA806DI TO220	L352-27622	081
D191	Rectifier FBI5L1M1 900V/5A	354-27910.Y22	081
D251	Diode STTA506F TO220	L352-27622.Y18	081
D411	Diode STPS20L45CF ISOWATT220AB 2x 10A	L352-20296.Y18	081
D413	Diode STPS20L45CF ISOWATT220AB 2x 10A	L352-20296.Y18	081
I151	Coupler SOP4 80V 50mA SMD	L353-32233	081
I201	Coupler SOP4 80V 50mA SMD	L353-32233	081
I311	Coupler SOP4 80V 50mA SMD	L353-32233	081
FUSES			
F101	3150mA T 250V 5x20 H	L380-29649	081
F181	1000mA F 250V 8x8	L380-31664.020	081
F418	4000mA F 250V 8x8	L380-31271.020	081
F451	4000mA F 250V 8x8	L380-31271.020	081
CAPACITORS			
C111	KOFOL 470N M 310VW	L359-29681	081
C113	330P M 400VW	L357-73804.Y01	081
C126	KOFOL 470N M 310VW	L359-29681	081
C128	KO-Y1 1N5 M 250V 10R0 X1/Y1	L357-29161	081
C131	KOFOL 470N M 310VW	L359-29681	081
C161	330P M 400VW	L357-73804.Y01	081
C191	470N M 275VW	L359-28292	081
C251	100P K 2000V	L359-28861	081

Basic Board**Art.-No. 89435.081**

Item N°.	Description	List Part N°.	Var.
CAPACITORS			
C252	Electrolytic Capacitor 180U M 450V	L360-32708	081
C342	Capacitor 10N J 630V	L359-31179	081
RESISTORS			
10	Resistor 0R22 J 0411 0W75	L368-31799.010	081
10	NTC Resistor 2R5 M 7R5 Y-Type WIDNT	L370-31354	081
R191	NTC Resistor 2R5 M 7R5 Y-Type WIDNT	L370-31354.Y07	081
R232	Resistor 0R22 J 0411 0W75	L368-31799.Y03	081
R340	Resistor 10M J 0411	L367-19664.Y05	081
SMD PARTS			
Diodes			
D141	DIOZD 20V0 J 0W2 SOD323 BZT52	L351-31487	081
D142	BAS321 SOD323	L351-28873	081
D181	1,0A 800V DO214AC FAST-GP	L351-25542	081
D192	BAS316 SOD323	L351-27952	081
D200	DIOZD 20V0 J 0W2 SOD323 BZT52	L351-31487	081
D201	BAS316 SOD323	L351-27952	081
D203	BAS316 SOD323	L351-27952	081
D222	BAS316 SOD323	L351-27952	081
D241	0A5 20V SOD123 Schottky	L351-30905	081
D306	DIOZD 5V6 J 0W25 SOD323	L351-31054	081
D308	BAS316 SOD323	L351-27952	081
D315	BAS316 SOD323	L351-27952	081
D316	1,0A 200V DO214AC FAST-GP	L351-29831	081
D332	1,0A 800V DO214AC FAST-GP	L351-25542	081
D335	BAS316 SOD323	L351-27952	081
D337	BAS316 SOD323	L351-27952	081
D380	BAS316 SOD323	L351-27952	081
D401	3,0A 40V SOD6 Schottky	L351-28529	081
D491	DIOZD 3V0 J 0W25 SOD323	L351-31129	081
D492	DIOZD 5V6 J 0W25 SOD323	L351-31054	081
D535	3,0A 40V SOD6 Schottky	L351-28529	081
D536	0A5 20V SOD123 Schottky	L351-30905	081
D540	3,0A 40V SOD6 Schottky	L351-28529	081
D541	0A5 20V SOD123 Schottky	L351-30905	081
D551	BAS316 SOD323	L351-27952	081
D556	DIOZD 30V J 0W25 SOD323	L351-31055	081
D557	BAS316 SOD323	L351-27952	081
D596	3,0A 40V SOD6 Schottky	L351-28529	081
D606	3,0A 40V SOD6 Schottky	L351-28529	081
D634	3,0A 40V SOD6 Schottky	L351-28529	081
D662	DIOZD 5V6 J 0W25 SOD323	L351-31054	081
D663	BAS316 SOD323	L351-27952	081
D664	BAS316 SOD323	L351-27952	081
D673	BAS316 SOD323	L351-27952	081
D780	DIOZD 12V0 J 0W25 SOD323	L351-31128	081
D781	BAS316 SOD323	L351-27952	081
D783	BAS316 SOD323	L351-27952	081
D784	BAS316 SOD323	L351-27952	081
D786	BAS316 SOD323	L351-27952	081
D791	DIOZD 6V2 J 0W25 SOD323	L351-31062	081
D793	0A5 20V SOD123 Schottky	L351-30905	081
D794	BAS316 SOD323	L351-27952	081
D823	BAS316 SOD323	L351-27952	081
D824	DIOZD 6V2 J 0W25 SOD323	L351-31062	081

Basic Board**Art.-No. 89435.081**

Item N°.	Description	List Part N°.	Var.
SMD PARTS			
Diodes			
D825	3,0A 40V SOD6 Schottky	L351-28529	081
D826	BAS316 SOD323	L351-27952	081
D827	DIOZD 6V2 J 0W25 SOD323	L351-31062	081
D828	3,0A 40V SOD6 Schottky	L351-28529	081
D863	BAS316 SOD323	L351-27952	081
D864	DIOZD 6V2 J 0W25 SOD323	L351-31062	081
D865	3,0A 40V SOD6 Schottky	L351-28529	081
D866	BAS316 SOD323	L351-27952	081
D867	DIOZD 6V2 J 0W25 SOD323	L351-31062	081
D868	3,0A 40V SOD6 Schottky	L351-28529	081
L431	3,0A 40V SOD6 Schottky	L351-28529	081
Transistors			
Q192	BC847BW SOT323	L344-27272	081
Q199	POWMOS DPAK NCH 400V 3A0 STD5NK40Z	L344-28594	081
Q207	BC857BW SOT323	L344-28404	081
Q301	BC847BW SOT323	L344-27272	081
Q304	BC847BW SOT323	L344-27272	081
Q306	BC857BW SOT323	L344-28404	081
Q370	BC847BW SOT323	L344-27272	081
Q371	BC847BW SOT323	L344-27272	081
Q536	BSO4822 SO-8 N-CH MOSFET	L344-31480	081
Q537	BSO4822 SO-8 N-CH MOSFET	L344-31480	081
Q541	POWMOS SO8 30V GA 2-NCH STS8DNF3LL	L344-30892	081
Q551	BC847BW SOT323	L344-27272	081
Q552	BC847BW SOT323	L344-27272	081
Q556	BC847BW SOT323	L344-27272	081
Q781	BC857BW SOT323	L344-28404	081
Q786	BC857BW SOT323	L344-28404	081
Q796	BC857BW SOT323	L344-28404	081
Q798	BC847BW SOT323	L344-27272	081
Q811	BC847BW SOT323	L344-27272	081
Q813	BC857BW SOT323	L344-28404	081
Q851	BC847BW SOT323	L344-27272	081
Q853	BC857BW SOT323	L344-28404	081

Signal Board**Art.-No. 89445.058-059**

Item N°.	Description	List Part N°.
UNITS		
U2141	Tuner-ZF 04 H04 complete	L396-89222.064
INTEGRATED CIRCUITS		
I2072	IC-VR 5V00 J 0A50 DPAK L78M05	L350-29006
I2111	IC-VR 5V00 J 0A50 DPAK L78M05	L350-29006
I2701	ICMOS SDA6000M2-B12 MQFP128	L350-30824
I2714	ICRES 2V70 SOT23-5 RESET S-80127	L350-30904
I2721	ICRES 2V70 SOT23-5 RESET S-80127	L350-30904
I2736	IC-VR 3V30 0A30 SOT223 TC1108	L350-29462
I2751	IC-VR 2V50 0A30 SOT223 TC1108	L350-29460
I2771	ICMOS 24256 SO-8 EEPROM 256K I2C	L350-31206
I2781	ICMOS 24256 SO-8 EEPROM 256K I2C	L350-31206
I2801	ICMOS 48LC4M# TSOP2 10ns SDRAM	L350-29137
I2811	ICMOS M29W320 TSOP48 90ns Flash Tray	L350-32490
I2841	ICMOS 74HCT4052D SO16	L350-29463

Signal Board**Art.-No. 89445.058-059**

Item N°.	Description	List Part N°.
INTEGRATED CIRCUITS		
I3001	ICMOS MSP4411K MQFP80	L350-32014
I3006	IC-VR 8V00 J 0A10 SO8 L78L08	L350-26953
I3041	ICMOS 74 AC157 SO16	L350-28896
I3061	TS482IST SO8 mini headphone ampl.	L350-31975
I3121	MC33079 SO14	L350-28701
I3401	ICMOS ATMEGA16 TQFP44 Controller	L350-32162
I3601	ICMOS FRC9428-XX-B1 PMQFP144-4	L350-32157
I3651	IC-VR 3V30 G 2A50 HSOP8 L5973D	L350-31900
I3701	ICMOS VSP 9427B-XZ-C4 PMQFP144-1	L350-32156
I3704	ICMOS 74LVC1G04 SOT353 Inverter	L350-30912
I3801	ICMOS TEA6425 SO20L	L350-32020
I3901	HCF4053B SO16	L350-28690
I3931	ICMOS PCF8574 SSOP20	L350-28688
I3951	NJM2293M DMP16 Video-SWIT	L350-30736
I4001	ICMOS SII9993 TQFP-100 HDMI Receiver	L350-31455
I4031	ICMOS 74LVC1G04 SOT353 Inverter	L350-30912
I4042	IC-VR 3V30 G 0A15 SOT23-5 ZXCL3#	L350-30710
I4071	ICMOS 24LC02BT SO-8 2K I2C EEPROM	L350-31438
I4201	ICMOS DPS9455B-XZ-A2 MQFP144 Tray	L350-32318
I4219	IC-VR 1V80 0A05 SOT23-5L LD2982	L350-32248
I4222	IC-VR 3V30 0A30 SOT223 TC1108	L350-29462
I4226	ICMOS 74LVC1G04 SOT353 Inverter	L350-30912
I4233	ICMOS 74LVC1G04 SOT353 Inverter	L350-30912
I4281	IC-VR 3V30 G 0A15 SOT23-5 ZXCL3#	L350-30710
I4301	ICMOS 74HCT 86 SO14	L350-16065
I4311	ICMOS 74 AC157 SO16	L350-28896
I4331	IC-VR 3V30 G 0A15 SOT23-5 ZXCL3#	L350-30710
I4336	HCF4053B SO16	L350-28690
I4381	ICMOS 74 AC157 SO16	L350-28896
I4501	ICMOS EP1C3T144C8 TQFP144 Cyclone-FPGA	L350-32207
I4506	ICMOS EPCS1 SOIC-8 CONFIG. DEVICE	L350-31956
I4516	IC-VR 3V30 0A30 SOT223 TC1108	L350-29462
I4531	74 AC 04 SO14	L350-16393
I4541	IC-VR 3V30 G 2A50 HSOP8 L5973D	L350-31900
I4601	ICMOS DS90C385MTD TSSOP56	L350-31013
I4701	ICMOS HEF4093 SO14	L350-30726
I4711	LM 358 SMD	L350-21521
I4801	LT1675CGN SSOP16 RGB-MUX	L350-30906
I4851	ICMOS 24LC02BT SO-8 2K I2C EEPROM	L350-31438
I5001	ICMOS STI5518BQC PQFP208	L350-31959
I5011	IC-VR 2V50 0A50 SOT223 TC1262	L350-29461
I5022	IC-VR 3V30 G 2A50 HSOP8 L5973D	L350-31900
I5039	ICMOS TSH72CD SO-8 OP-AMP	L350-29866
I5101	ICMOS 48LC4M# TSOP2 10ns SDRAM	L350-29137
I5151	ICMOS MK3727D SOIC-8	L350-30948
I5171	IC-VR 3V30 J 0A80 SO8 LD1117	L350-27212
I5181	ICRES 2V60 SO8 RESET-IC TL7702	L350-27827
I5201	ICMOS 48LC4M# TSOP2 10ns SDRAM	L350-29137
I5251	ICMOS 74 HCT125 SMD	L350-15523
I5301	ICMOS M29W320 TSOP48 90ns Flash Tray	L350-32490
I5401	ICMOS TDA10046HT TQFP-64	L350-31012
I5431	IC-VR 1V80 F 0A50 SO-8 LP2989#	L350-29193
I5441	IC-VR 3V30 G 0A15 SOT23-5 ZXCL3#	L350-30710

Signal Board**Art.-No. 89445.058-059**

Item N°.	Description	List Part N°.
INTEGRATED CIRCUITS		
I5461	LM317M TO252	L350-28700
I5471	LM 2903D SO08	L350-21674
I5551	MAX4546CSE SO16 RF/Video Switch	L350-28499
I5701	ICMOS STV0700 PQFP128 CI-CONT	L350-29865
I5721	ICMOS 74LVC14 SO14	L350-29881
I5771	ICMOS 74LVT245 SO20	L350-27028
I5781	ICMOS 74LVTH373 SO20	L350-29875
I5791	ICMOS 74LVTH373 SO20	L350-29875
SOCKETS		
10	Contact Ledge vert. 2-P nat.	L326-31940
W2001	Socket VGA 15-pol.	L323-32079
W2011	Contact Ledge SMD 5-pol. nat. 1R00 SR/SH vert.	L326-32424
W2021	Contact Ledge SMD 14-pol. nat. 1R0 SR vert.	L326-32095
W2071	Contact Ledge Connector 13-pol. 13JL-BT-L-H-C (JST)	L326-19543
W2072	Contact Ledge Connector 13-pol. 13JL-BT-L-H-C (JST)	L326-19543
W2081	Socket HDMI SMD horizontal without flange	L323-32291
W2101	Contact Ledge vert. 16-pol. nat. 2R0 2-row PHD	L326-32113
W2111	Contact Ledge vert. 4-pol. ge. 2R50 EH	L326-28671.Y29
W2131	Contact Ledge vert. 3-pol. nat. 2R50 EH	L326-20054.Y29
W2134	Contact Ledge vert. 6-pol. nat. 2R50 EH	L326-20762.Y29
W2136	Contact Ledge vert. 2-P nat. 2R50 EH	L326-31940.Y29
W2142	Socket row 4-pol.	L326-28942.001
W2143	Socket row 14-pol.	L326-28942.002
W2171	Cinch socket 6-fold horizontal coloured	L323-32077.002
W2181	Contact Ledge vert. 11-pol. nat.	L326-24643
W2201	SCART Socket horizontal	L323-32078
W2211	SCART Socket horizontal	L323-32078
W2221	Cinch Socket 4-fold horizontal 4 colour	L323-32076.001
W2231	Socket vert. 6-pol. blk.	L326-31059
W2281	Mini-DIN socket 8-pol.	L323-18812
W4501	Contact Ledge vert. 9-P nat.	L326-28719
W4601	Contact Ledge 50-pol. 0R5 vert. gold SMD	L326-32553
W4611	Contact Ledge 33-pol. 0R5 vert. gold SMD	L326-32554
QUARTZES		
X2738	Crystal Oscillator 6,000000 MHz HC49U CL=20pF	L385-29248
X3026	Crystal Oscillator 18,432000 MHz HC49U	L385-25502
X3408	Quartz 11,059200 MHz HC49U3H low profile	L385-16812
X3607	Crystal Oscillator 20,250000 MHz HC49U	L385-26686
X3792	Crystal Oscillator 20,250000 MHz HC49U	L385-26686
X4214	Crystal Oscillator 20,250000 MHz HC49U	L385-26686
X4534	Crystal Oscillator 29,491200 MHz HC49U3	L385-31414
X5154	Crystal Oscillator 13,500000 MHz HC49U	L385-18287
X5414	Crystal Oscillator 16,000000 MHz HC49U	L385-28900
RESISTORS		
R2041	NTC Resistor 10K 0603 100mW WIDNT	L370-31696
R4021	Resistor 4x22R J 4x0603 Res. Array	L374-30936
R4022	Resistor 4x22R J 4x0603 Res. Array	L374-30936
R4023	Resistor 4x22R J 4x0603 Res. Array	L374-30936
R4024	Resistor 4x22R J 4x0603 Res. Array	L374-30936
R4026	Resistor 4x22R J 4x0603 Res. Array	L374-30936
R4027	Resistor 4x22R J 4x0603 Res. Array	L374-30936
R4241	Resistor 4x22R J 4x0603 Res. Array	L374-30936
R4242	Resistor 4x22R J 4x0603 Res. Array	L374-30936

Signal Board**Art.-No. 89445.058-059**

Item N°.	Description	List Part N°.
RESISTORS		
R4243	4x22R J 4x0603 Res. Array	L374-30936
R4244	4x22R J 4x0603 Res. Array	L374-30936
R4246	4x22R J 4x0603 Res. Array	L374-30936
R4247	4x22R J 4x0603 Res. Array	L374-30936
R4511	4x22R J 4x0603 Res. Array	L374-30936
R4512	4x22R J 4x0603 Res. Array	L374-30936
R4513	4x22R J 4x0603 Res. Array	L374-30936
R4514	4x22R J 4x0603 Res. Array	L374-30936
R4516	4x22R J 4x0603 Res. Array	L374-30936
R4517	4x22R J 4x0603 Res. Array	L374-30936
SMD PARTS		
Diodes		
D2001	BAS316 SOD323	L351-27952
D2071	1,0A 600V DO-214AC	L351-20547
D2072	1,0A 600V DO-214AC	L351-20547
D2097	BAS316 SOD323	L351-27952
D2102	0A1 30V SOD323 Schottky	L351-31461
D2108	1,0A 600V DO-214AC	L351-20547
D2109	1,0A 600V DO-214AC	L351-20547
D2286	DIOZD 5V6 J 0W5 SOD-80 ZMM5.6	L351-16758
D2287	BAS316 SOD323	L351-27952
D2709	BAS316 SOD323	L351-27952
D2732	0A5 20V SOD123 Schottky	L351-30905
D2762	DIOZD 6V2 J 0W25 SOD323	L351-31062
D2771	DIOZD 5V6 J 0W25 SOD323	L351-31054
D2831	BAS316 SOD323	L351-27952
D2838	BAS316 SOD323	L351-27952
D2847	BAS316 SOD323	L351-27952
D2849	BAS316 SOD323	L351-27952
D2857	BAS316 SOD323	L351-27952
D2904	3,0A 40V SOD6 Schottky	L351-28529
D3113	DIOZD 12V0 J 0W25 SOD323	L351-31128
D3122	BAS316 SOD323	L351-27952
D3133	DIOZD 12V0 J 0W25 SOD323	L351-31128
D3656	3,0A 40V SOD6 Schottky	L351-28529
D3828	DIOZD 5V6 J 0W5 SOD-80 ZMM5.6	L351-16758
D3874	DIOZD 5V6 J 0W5 SOD-80 ZMM5.6	L351-16758
D3971	BAS316 SOD323	L351-27952
D3972	BAS316 SOD323	L351-27952
D4083	BAS316 SOD323	L351-27952
D4093	BAS316 SOD323	L351-27952
D4096	BAS316 SOD323	L351-27952
D4543	3,0A 40V SOD6 Schottky	L351-28529
D4712	BAS316 SOD323	L351-27952
D4801	0A5 20V SOD123 Schottky	L351-30905
D4802	DIOZD 5V6 J 0W25 SOD323	L351-31054
D4806	0A5 20V SOD123 Schottky	L351-30905
D4807	DIOZD 5V6 J 0W25 SOD323	L351-31054
D4851	BAS316 SOD323	L351-27952
D5024	3,0A 40V SOD6 Schottky	L351-28529
D5078	0A1 30V SOD323 Schottky	L351-31461
D5256	BAS316 SOD323	L351-27952
D5262	BAS316 SOD323	L351-27952
D5271	BAS316 SOD323	L351-27952

Signal Board**Art.-No. 89445.058-059**

Item N°.	Description	List Part N°.
SMD PARTS		
Diodes		
D5281	BAS316 SOD323	L351-27952
D5467	1,0A 600V DO-214AC	L351-20547
Transistors		
Q2081	BF799LK	L344-17798
Q2084	BC847BW SOT323	L344-27272
Q2086	BC847BW SOT323	L344-27272
Q2088	BC857BW SOT323	L344-28404
Q2091	BF799LK	L344-17798
Q2287	BC857BW SOT323	L344-28404
Q2292	BC857BW SOT323	L344-28404
Q2294	BC857BW SOT323	L344-28404
Q2297	BC857BW SOT323	L344-28404
Q2298	BC857BW SOT323	L344-28404
Q2702	BC847BW SOT323	L344-27272
Q2707	BC847BW SOT323	L344-27272
Q2733	BC847BW SOT323	L344-27272
Q2762	SN7002 SOT23 0A19 60V NCH	L344-29134
Q2764	SN7002 SOT23 0A19 60V NCH	L344-29134
Q2766	SN7002 SOT23 0A19 60V NCH	L344-29134
Q2768	SN7002 SOT23 0A19 60V NCH	L344-29134
Q2788	BC847BW SOT323	L344-27272
Q2817	BC847BW SOT323	L344-27272
Q2821	BC857BW SOT323	L344-28404
Q2826	SN7002 SOT23 0A19 60V NCH	L344-29134
Q2831	BC857BW SOT323	L344-28404
Q2838	BC847BW SOT323	L344-27272
Q2847	BC847BW SOT323	L344-27272
Q2849	BC847BW SOT323	L344-27272
Q2857	BC847BW SOT323	L344-27272
Q2859	BC847BW SOT323	L344-27272
Q2863	BC847BW SOT323	L344-27272
Q2867	BC847BW SOT323	L344-27272
Q2871	BC847BW SOT323	L344-27272
Q2883	BC847BW SOT323	L344-27272
Q2887	BC847BW SOT323	L344-27272
Q2891	BC847BW SOT323	L344-27272
Q2904	BC847BW SOT323	L344-27272
Q2978	BC847BW SOT323	L344-27272
Q2982	BC847BW SOT323	L344-27272
Q3028	BC857BW SOT323	L344-28404
Q3051	BC857BW SOT323	L344-28404
Q3057	BC847BW SOT323	L344-27272
Q3066	BC857BW SOT323	L344-28404
Q3068	BC857BW SOT323	L344-28404
Q3071	BC857BW SOT323	L344-28404
Q3078	BC847BW SOT323	L344-27272
Q3083	BC847BW SOT323	L344-27272
Q3093	BC847BW SOT323	L344-27272
Q3117	BC847BW SOT323	L344-27272
Q3118	BC847BW SOT323	L344-27272
Q3137	BC847BW SOT323	L344-27272
Q3138	BC847BW SOT323	L344-27272
Transistors		
Q3416	SN7002 SOT23 0A19 60V NCH	L344-29134
Q3426	SN7002 SOT23 0A19 60V NCH	L344-29134

Signal Board**Art.-No. 89445.058-059**

Item N°.	Description	List Part N°.
SMD PARTS		
Transistors		
Q3441	BC847BW SOT323	L344-27272
Q3443	BC847BW SOT323	L344-27272
Q3446	BC847BW SOT323	L344-27272
Q3448	BC847BW SOT323	L344-27272
Q3451	BC847BW SOT323	L344-27272
Q3456	BC847BW SOT323	L344-27272
Q3709	BC847BW SOT323	L344-27272
Q3724	BC847BW SOT323	L344-27272
Q3751	BC847BW SOT323	L344-27272
Q3811	BC857BW SOT323	L344-28404
Q3816	BC847BW SOT323	L344-27272
Q3818	BC857BW SOT323	L344-28404
Q3828	BC847BW SOT323	L344-27272
Q3852	BC847BW SOT323	L344-27272
Q3862	BC857BW SOT323	L344-28404
Q3872	BC847BW SOT323	L344-27272
Q3904	BC847BW SOT323	L344-27272
Q3906	BC857BW SOT323	L344-28404
Q3923	BC847BW SOT323	L344-27272
Q3927	BC847BW SOT323	L344-27272
Q3952	BC847BW SOT323	L344-27272
Q3962	BC847BW SOT323	L344-27272
Q3971	BC807-25 SOT23	L344-16064
Q3973	BC857BW SOT323	L344-28404
Q4017	BC847BW SOT323	L344-27272
Q4077	BC847BW SOT323	L344-27272
Q4083	BF799LK	L344-17798
Q4093	BF799LK	L344-17798
Q4103	BC847BW SOT323	L344-27272
Q4107	BC847BW SOT323	L344-27272
Q4113	BC847BW SOT323	L344-27272
Q4254	BC847BW SOT323	L344-27272
Q4322	BC847BW SOT323	L344-27272
Q4327	BC847BW SOT323	L344-27272
Q4336	BC847BW SOT323	L344-27272
Q5016	BC847BW SOT323	L344-27272
Q5256	BC857BW SOT323	L344-28404
Q5262	BC857BW SOT323	L344-28404
Q5267	BC857BW SOT323	L344-28404
Q5271	BSV52 SOT23	L344-16207
Q5281	BSV52 SOT23	L344-16207
Q5288	BC857BW SOT323	L344-28404
Q5291	BC847BW SOT323	L344-27272
Q5467	SI2302ADS MOSF.N-channel 1,25W SOT23	L344-28503
Q5471	BC847BW SOT323	L344-27272
Q5479	BC847BW SOT323	L344-27272
Q5481	BC847BW SOT323	L344-27272

IR Receiver/LED**Art.-No. 89476.050**

Item N°.	Description	List Part N°.	Var.
SOCKETS			
W6001	Contact Ledge vert. 6-pol. nat.	L326-20762	050
DIODES			
D6007	Coupler LED bicolor SMD T677 red/green	L353-31002	050
I6002	Coupler IR receiver GP1UW261RK0F Sharp	L353-32616	050
SMD PARTS			
D6001	DIOZD 6V2 J 0W25 SOD323	L351-31062	050
D6002	Diode BAS316 SOD323	L351-27952	050
D6003	Diode BAS316 SOD323	L351-27952	050
Q6010	Transistor BC847BW SOT323	L344-27272	050
Q6011	Transistor BC847BW SOT323	L344-27272	050
Q6013	Transistor BC857BW SOT323	L344-28404	050
Q6014	Transistor BC857BW SOT323	L344-28404	050

Control Unit Sharp GD7**Art.-No. 89477.050**

Item N°.	Description	List Part N°.	Var.
SOCKETS			
W6002	Contact Ledge hor. 4-pol. nat.	L326-19787	050
W6003	Contact Ledge 3-pol. nat.	L326-26649	050
SWITCHES			
W6014	Switch 2-pol. 0A2 30VDC	L467-32484	050
W6018	Switch horiz. 6x6 DTSA	L467-32483	050
W6019	Switch horiz. 6x6 DTSA	L467-32483	050
W6020	Switch horiz. 6x6 DTSA	L467-32483	050
W6021	Switch horiz. 6x6 DTSA	L467-32483	050
W6022	Switch horiz. 6x6 DTSA	L467-32483	050
SMD PARTS			
D6001	Diode BAS316 SOD323	L351-27952	050
D6002	Diode DIOZD 6V2 J 0W25 SOD323	L351-31062	050
Q6002	Transistor BC847BW SOT323	L344-27272	050

	REF NO.	PART NUMBER	DESCRIPTION
PWB ASSY			
		DUNTKD025VJ05	LCD Control Unit
		DUNTKD165VJ06	Micro Processor Unit
		RUNTKA147WJZZ	Inverter A Unit
		RUNTKA148WJZZ	Inverter B Unit
		RUNTKA149WJZZ	Inverter A GND Unit
		RUNTKA150WJZZ	Inverter B GND Unit
LCDCONTROL UNIT			
IC			
	IC4101	VHiBD8133FV-1Y	Bd8133Fv-E2
	IC4102	VHiNJM4580V-1Y	Njm4580V
	IC4104	RH-iXB332WJZZY	I.C.
	IC4107	VHiLP2951CM-1Y	Lp2951Cmx
	IC4501	RH-iXB411WJZZY	I.C.
	IC4502	RH-iXB326WJZZQ	Ixb326
	IC4503	RH-iXB029WJZZQ	Mt48Lc2M32B2P6
	IC4601	VHiDS90C386-1Y	Ds90Cf386Mtdx
	IC4603	VHiT7WH123U-1Y	Tc7Wh123Fu
	IC4901	RH-iXB420WJZZY	I.C.
	IC4902	VHiLM8261++-1Y	Lm8261M5X
	IC4903	VHiLM8261++-1Y	Lm8261M5X
	IC7702	VHiPQ025EZ5-1Y	Pq025Ez5Mzp
	IC7704	VHiPQ033EZ1-1Y	Pq033Ez01Zp
TRANSISTOR			
	Q4101	VS2SD1664Q+-1Y	2SD1664Q
	Q4105	VSTP0610T++-1Y	TP0610T
	Q4106	VS2SC3928AR-1Y	2SC3928AR
	Q4108	VS2SK1826++-1Y	2SK1826
	Q4109	VS2SK1826++-1Y	2SK1826
	Q4112	VS2SB1132Q/-1Y	2SB1132Q
	Q4113	VS2SK1826++-1Y	2SK1826
	Q4114	VS2SK1826++-1Y	2SK1826
	Q4115	VSDTC144EE/-1Y	DTC144EE
	Q4116	VSDTC144EE/-1Y	DTC144EE
	Q4901	VS2SD1664Q+-1Y	2SD1664Q
	Q4902	VS2SB1132Q/-1Y	2SB1132Q
	Q4903	VS2SD1664Q+-1Y	2SD1664Q
	Q4904	VS2SB1132Q/-1Y	2SB1132Q
	Q4905	VS2SD1664Q+-1Y	2SD1664Q
	Q4906	VS2SB1132Q/-1Y	2SB1132Q
	Q4907	VS2SD1664Q+-1Y	2SD1664Q
	Q4908	VS2SB1132Q/-1Y	2SB1132Q
	Q4909	VSQS6M4++++-1Y	QS6M4
	Q4910	VSQS6M4++++-1Y	QS6M4
	Q4911	VSQS6M4++++-1Y	QS6M4
	Q4912	VSQS6M4++++-1Y	QS6M4
	Q4913	VSQS6M4++++-1Y	QS6M4
	Q4914	VSQS6M4++++-1Y	QS6M4
	Q4915	VSQS6M4++++-1Y	QS6M4
	Q4916	VSQS6M4++++-1Y	QS6M4
	Q4917	VSQS6M4++++-1Y	QS6M4
	Q4918	VSQS6M4++++-1Y	QS6M4
	Q4919	VSDTC144EE/-1Y	DTC144EE
DIODE			
	D4101	VHDLi114+++1Y	Diode
	D4102	VHDLi114+++1Y	Diode
	D4103	VHDLi124+++1Y	Diode
	D4104	VHDLi114+++1Y	Diode
	D4105	VHDLi124+++1Y	Diode
	D4106	RH-EX1274CEZZY	Zener Diode
	D4901	VHDRB521S30-1Y	Diode
	D4902	VHDRB521S30-1Y	Diode
	D4903	VHDRB521S30-1Y	Diode
	D4904	VHDRB521S30-1Y	Diode
	D4905	VHDRB521S30-1Y	Diode
	D4906	VHDRB521S30-1Y	Diode
	D4907	VHDRB521S30-1Y	Diode

REF NO.	PART NUMBER	DESCRIPTION
D4908	VHDB521S30-1Y	Diode
D4909	VHDB521S30-1Y	Diode
D4910	VHDB521S30-1Y	Diode
D7701	VHDHSU119//1Y	Diode
D7705	VHDHSU119//1Y	Diode
PACKAGED CIRCUITS		
X4501	RCRUAA048WJZZY	Crystal
FILTER AND COIL		
FL4651	RFILNA002WJZZY	Filter
FL4652	RFILNA002WJZZY	Filter
FL4653	RFILNA002WJZZY	Filter
FL4654	RFILNA002WJZZY	Filter
L4101	RCiLPA296WJZZY	Coil
L4102	RCiLP0343TAZZY	Coil
L4103	RCiLP0343TAZZY	Coil
L4104	RCiLP0271TAZZY	Coil
L4105	VPD9M4R7J1R4NY	Peaking 4.7H 5%
L4106	RCiLP0343TAZZY	Coil
L4107	RCiLP0343TAZZY	Coil
L4110	VPD9M4R7J1R4NY	Peaking 4.7H 5%
CAPACITOR		
C4101	VCKYCY1EF104ZY	0.1 25V Ceramic
C4102	VCKYCY1EF104ZY	0.1 25V Ceramic
C4103	VCKYCY1EF104ZY	0.1 25V Ceramic
C4104	VCKYCY1EF104ZY	0.1 25V Ceramic
C4105	VCKYCY1EF104ZY	0.1 25V Ceramic
C4106	RC-KZA107WJZZY	Capacitor
C4107	VCKYCY1HB102KY	1000p 50V Ceramic
C4108	RC-KZA107WJZZY	Capacitor
C4109	VCCCCY1HH680JY	68p 50V Ceramic
C4110	RC-KZA107WJZZY	Capacitor
C4111	RC-KZA110WJZZY	Capacitor
C4112	VCKYCY1EF104ZY	0.1 25V Ceramic
C4113	RC-KZA110WJZZY	Capacitor
C4114	RC-KZA114WJZZY	Capacitor
C4115	RC-KZA114WJZZY	Capacitor
C4116	RC-KZA114WJZZY	Capacitor
C4117	RC-KZA114WJZZY	Capacitor
C4118	RC-KZA114WJZZY	Capacitor
C4119	RC-KZA114WJZZY	Capacitor
C4120	RC-KZA114WJZZY	Capacitor
C4121	RC-KZA114WJZZY	Capacitor
C4122	RC-KZA114WJZZY	Capacitor
C4123	RC-KZA114WJZZY	Capacitor
C4124	RC-KZA114WJZZY	Capacitor
C4125	RC-KZA114WJZZY	Capacitor
C4126	RC-KZA114WJZZY	Capacitor
C4127	RC-KZA114WJZZY	Capacitor
C4128	RC-KZA114WJZZY	Capacitor
C4129	RC-KZA114WJZZY	Capacitor
C4130	RC-KZA114WJZZY	Capacitor
C4131	RC-KZA114WJZZY	Capacitor
C4141	VCCCCY1HH101JY	100p 50V Ceramic
C4142	VCKYCY1HB222KY	2200p 50V Ceramic
C4143	VCCCCY1HH101JY	100p 50V Ceramic
C4144	VCKYCY1HB222KY	2200p 50V Ceramic
C4145	VCCCCY1HH100DY	10p 50V Ceramic
C4146	VCCCCY1HH101JY	100p 50V Ceramic
C4147	VCCCCY1HH681JY	680p 50V Ceramic
C4148	VCCCCY1HH101JY	100p 50V Ceramic
C4149	VCKYCY1HB222KY	2200p 50V Ceramic
C4150	VCKYCY1CF224ZY	0.22 16V Ceramic
C4151	RC-KZ0053TAZZY	Capacitor
C4152	VCEASY1CN477MY	470 16V Electrolytic
C4153	VCKYCY1EF104ZY	0.1 25V Ceramic
C4154	VCEASY1EN227MY	220 25V Electrolytic
C4155	RC-KZA110WJZZY	Capacitor
C4156	VCKYCY1HB102KY	1000p 50V Ceramic

REF NO.	PART NUMBER	DESCRIPTION
C4157	VCKYCY1HB102KY	1000p 50V Ceramic
C4158	VCKYCY1CF474ZY	0.47 16V Ceramic
C4159	RC-KZ0053TAZZY	Capacitor
C4160	VCEASY1HN106MY	10 50V Electrolytic
C4161	RC-KZA047WJZZY	Capacitor
C4162	RC-KZ0070TAZZY	Capacitor
C4163	RC-KZA047WJZZY	Capacitor
C4164	VCEASY1EN227MY	220 25V Electrolytic
C4165	RC-KZA110WJZZY	Capacitor
C4166	RC-KZA047WJZZY	Capacitor
C4168	RC-KZA083WJZZY	Capacitor
C4176	VCKYCY1EF104ZY	0.1 25V Ceramic
C4192	VCKYCY1HB152KY	1500p 50V Ceramic
C4195	VCKYCY1EF104ZY	0.1 25V Ceramic
C4197	VCKYCY1EF104ZY	0.1 25V Ceramic
C4198	VCKYCY1EF104ZY	0.1 25V Ceramic
C4199	RC-KZA047WJZZY	Capacitor
C4501	VCKYCY1EF104ZY	0.1 25V Ceramic
C4502	VCKYCY1EF104ZY	0.1 25V Ceramic
C4503	VCKYCY1EF104ZY	0.1 25V Ceramic
C4504	VCKYCY1EF104ZY	0.1 25V Ceramic
C4505	VCKYCY1EF104ZY	0.1 25V Ceramic
C4506	VCKYCY1HB103KY	0.01 50V Ceramic
C4507	VCKYCY1EF104ZY	0.1 25V Ceramic
C4508	VCKYCY1EF104ZY	0.1 25V Ceramic
C4509	VCKYCY1EF104ZY	0.1 25V Ceramic
C4510	VCKYCY1EF104ZY	0.1 25V Ceramic
C4511	VCKYCY1HB103KY	0.01 50V Ceramic
C4512	VCKYCY1EF104ZY	0.1 25V Ceramic
C4513	VCKYCY1EF104ZY	0.1 25V Ceramic
C4514	VCKYCY1EF104ZY	0.1 25V Ceramic
C4515	VCKYCY1EF104ZY	0.1 25V Ceramic
C4516	VCKYCY1HB103KY	0.01 50V Ceramic
C4517	VCKYCY1EF104ZY	0.1 25V Ceramic
C4518	VCKYCY1EF104ZY	0.1 25V Ceramic
C4519	VCKYCY1EF104ZY	0.1 25V Ceramic
C4520	VCKYCY1EF104ZY	0.1 25V Ceramic
C4521	VCKYCY1HB103KY	0.01 50V Ceramic
C4522	VCKYCY1EF104ZY	0.1 25V Ceramic
C4523	VCKYCY1EF104ZY	0.1 25V Ceramic
C4524	VCKYCY1EF104ZY	0.1 25V Ceramic
C4525	VCKYCY1EF104ZY	0.1 25V Ceramic
C4526	VCKYCY1EF104ZY	0.1 25V Ceramic
C4527	RC-KZ0070TAZZY	Capacitor
C4528	VCKYCY1HB103KY	0.01 50V Ceramic
C4529	RC-KZ0070TAZZY	Capacitor
C4530	VCKYCY1HB103KY	0.01 50V Ceramic
C4531	RC-KZ0070TAZZY	Capacitor
C4532	VCKYCY1HB103KY	0.01 50V Ceramic
C4533	RC-KZ0070TAZZY	Capacitor
C4534	VCKYCY1HB103KY	0.01 50V Ceramic
C4535	VCKYCY1HB103KY	0.01 50V Ceramic
C4537	VCKYCY1HB102KY	1000p 50V Ceramic
C4538	VCKYCY1EF104ZY	0.1 25V Ceramic
C4602	VCKYCY1EF104ZY	0.1 25V Ceramic
C4603	VCKYCY1EF104ZY	0.1 25V Ceramic
C4604	VCKYCY1HB102KY	1000p 50V Ceramic
C4605	VCKYCY1HB102KY	1000p 50V Ceramic
C4606	VCKYCY1EF104ZY	0.1 25V Ceramic
C4607	VCKYCY1EF104ZY	0.1 25V Ceramic
C4608	VCKYCY1EF104ZY	0.1 25V Ceramic
C4609	VCKYCY1EF104ZY	0.1 25V Ceramic
C4610	RC-KZ0070TAZZY	Capacitor
C4622	VCKYCY1HB102KY	1000p 50V Ceramic
C4623	VCKYCY1EF104ZY	0.1 25V Ceramic
C4651	VCAAPF0JJ107MY	100 6.3V Electrolytic
C4652	VCKYCY1EF104ZY	0.1 25V Ceramic
C4653	VCAAPC1DJ226MY	22 20V Electrolytic

REF NO.	PART NUMBER	DESCRIPTION
C4654	VCKYCY1EF104ZY	0.1 25V Ceramic
C4655	VCAAPF0JJ107MY	100 6.3V Electrolytic
C4656	VCKYCY1EF104ZY	0.1 25V Ceramic
C4657	VCAAPC1DJ226MY	22 20V Electrolytic
C4658	VCKYCY1EF104ZY	0.1 25V Ceramic
C4659	RC-KZ0070TAZZY	Capacitor
C4660	RC-KZA110WJZZY	Capacitor
C4661	RC-KZ0070TAZZY	Capacitor
C4662	RC-KZA110WJZZY	Capacitor
C4901	VCKYCY1EF104ZY	0.1 25V Ceramic
C4902	VCKYCY1EF104ZY	0.1 25V Ceramic
C4903	VCCCCY1HH680JY	68p 50V Ceramic
C4904	RC-KZA106WJZZY	Capacitor
C4905	RC-KZA109WJZZY	10 16V Ceramic
C4906	RC-KZA109WJZZY	10 16V Ceramic
C4907	VCKYCY1EF104ZY	0.1 25V Ceramic
C4908	VCCCCY1HH680JY	68p 50V Ceramic
C4909	RC-KZA106WJZZY	Capacitor
C4910	RC-KZA109WJZZY	10 16V Ceramic
C4911	RC-KZA109WJZZY	10 16V Ceramic
C4912	RC-KZA106WJZZY	Capacitor
C4913	VCKYCY1EF104ZY	0.1 25V Ceramic
C4914	VCKYCY1HB103KY	0.01 50V Ceramic
C4915	VCKYCY1HB103KY	0.01 50V Ceramic
C4916	VCKYCY1EF104ZY	0.1 25V Ceramic
C4917	VCKYCY1EF104ZY	0.1 25V Ceramic
C4918	VCKYCY1EF104ZY	0.1 25V Ceramic
C4919	VCKYCY1EF104ZY	0.1 25V Ceramic
C4920	VCKYCY1HB103KY	0.01 50V Ceramic
C4921	VCKYCY1HB103KY	0.01 50V Ceramic
C4922	VCKYCY1EF104ZY	0.1 25V Ceramic
C4923	VCKYCY1EF104ZY	0.1 25V Ceramic
C4924	VCKYCY1EF104ZY	0.1 25V Ceramic
C4925	VCKYCY1EF104ZY	0.1 25V Ceramic
C4926	VCKYCY1HB103KY	0.01 50V Ceramic
C4927	VCKYCY1HB103KY	0.01 50V Ceramic
C4928	VCKYCY1EF104ZY	0.1 25V Ceramic
C4929	VCKYCY1EF104ZY	0.1 25V Ceramic
C4930	VCKYCY1EF104ZY	0.1 25V Ceramic
C4931	VCKYCY1HB103KY	0.01 50V Ceramic
C4932	VCKYCY1HB103KY	0.01 50V Ceramic
C4933	VCKYCY1EF104ZY	0.1 25V Ceramic
C4934	VCKYCY1EF104ZY	0.1 25V Ceramic
C4935	VCKYCY1EF104ZY	0.1 25V Ceramic
C4936	VCKYCY1EF104ZY	0.1 25V Ceramic
C4937	VCKYCY1EF104ZY	0.1 25V Ceramic
C4938	VCKYCY1HB103KY	0.01 50V Ceramic
C4939	VCKYCY1HB103KY	0.01 50V Ceramic
C4940	VCKYCY1EF104ZY	0.1 25V Ceramic
C4941	VCKYCY1EF104ZY	0.1 25V Ceramic
C4942	VCKYCY1EF104ZY	0.1 25V Ceramic
C7702	VCKYCY1EF104ZY	0.1 25V Ceramic
C7703	VCEASY0JN476MY	47 6.3V Electrolytic
C7704	VCKYCY1HB103KY	0.01 50V Ceramic
C7707	VCEASY1CN226MY	22 16V Electrolytic
C7713	VCKYCY1EF104ZY	0.1 25V Ceramic
C7723	VCEASY0JN476MY	47 6.3V Electrolytic
C7725	VCKYCY1EF104ZY	0.1 25V Ceramic

RESISTOR

R4101	VRS-CY1JF102FY	1.0k 1/16W 1% Metal Oxide
R4102	VRS-CY1JF101JY	100 1/16W 5% Metal Oxide
R4103	VRS-CY1JF101JY	100 1/16W 5% Metal Oxide
R4104	VRS-CY1JF103JY	10k 1/16W 5% Metal Oxide
R4105	VRS-TW2ED331JY	330 1/4W 5% Metal Oxide
R4106	VRS-CY1JF103JY	10k 1/16W 5% Metal Oxide
R4107	VRS-CY1JF103JY	10k 1/16W 5% Metal Oxide
R4108	VRS-CY1JF101JY	100 1/16W 5% Metal Oxide
R4109	VRS-CY1JF101JY	100 1/16W 5% Metal Oxide

REF NO.	PART NUMBER	DESCRIPTION
R4110	VRS-CY1JF101JY	100 1/16W 5% Metal Oxide
R4111	VRS-CY1JF103JY	10k 1/16W 5% Metal Oxide
R4112	VRS-CY1JF153FY	15k 1/16W 1% Metal Oxide
R4113	VRS-CY1JF330JY	33 1/16W 5% Metal Oxide
R4114	VRS-CY1JF000JY	0 1/16W 5% Metal Oxide
R4116	VRS-CY1JF103JY	10k 1/16W 5% Metal Oxide
R4118	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4119	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4120	VRS-CY1JF103JY	10k 1/16W 5% Metal Oxide
R4121	VRS-CY1JF332FY	3.3k 1/16W 1% Metal Oxide
R4122	VRS-CY1JF682FY	6.8k 1/16W 1% Metal Oxide
R4123	VRS-CY1JF332FY	3.3k 1/16W 1% Metal Oxide
R4124	VRS-CY1JF392FY	3.9k 1/16W 1% Metal Oxide
R4125	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4126	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4127	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4128	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4129	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4130	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4131	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4132	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4133	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4134	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4135	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4136	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4137	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4138	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4140	VRS-CY1JF000JY	0 1/16W 5% Metal Oxide
R4142	VRS-CY1JF000JY	0 1/16W 5% Metal Oxide
R4143	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4144	VRS-CY1JF102JY	1.0k 1/16W 5% Metal Oxide
R4145	VRS-CY1JF102JY	1.0k 1/16W 5% Metal Oxide
R4146	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4147	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4148	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4149	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4150	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4151	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4152	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4153	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4154	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4155	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4156	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4157	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4158	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4159	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4160	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4161	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4162	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4163	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4206	VRS-TV1JD102JY	1.0k 1/10W 5% Metal Oxide
R4220	VRS-CY1JF114FY	110k 1/16W 1% Metal Oxide
R4221	VRS-CY1JF822FY	8.2k 1/16W 1% Metal Oxide
R4222	VRS-TW2ED562JY	5.6k 1/4W 5% Metal Oxide
R4223	VRS-CY1JF183JY	18k 1/16W 5% Metal Oxide
R4224	VRS-TV1JD222JY	2.2k 1/10W 5% Metal Oxide
R4225	VRS-CY1JF682JY	6.8k 1/16W 5% Metal Oxide
R4226	VRS-TV1JD222JY	2.2k 1/10W 5% Metal Oxide
R4227	VRS-TW2ED821JY	820 1/4W 5% Metal Oxide
R4228	VRS-CY1JF103FY	10k 1/16W 1% Metal Oxide
R4229	VRS-CY1JF103FY	10k 1/16W 1% Metal Oxide
R4230	VRS-CY1JF103FY	10k 1/16W 1% Metal Oxide
R4231	VRS-CY1JF473FY	47k 1/16W 1% Metal Oxide
R4232	VRS-CY1JF102FY	1.0k 1/16W 1% Metal Oxide
R4233	VRS-CY1JF103JY	10k 1/16W 5% Metal Oxide
R4234	VRS-CY1JF273JY	27k 1/16W 5% Metal Oxide
R4235	VRS-CY1JF104JY	100k 1/16W 5% Metal Oxide
R4236	VRS-CY1JF133JY	13k 1/16W 5% Metal Oxide

REF NO.	PART NUMBER	DESCRIPTION
R4237	VRS-CY1JF163FY	16k 1/16W 1% Metal Oxide
R4238	VRS-CY1JF511FY	510 1/16W 1% Metal Oxide
R4239	VRS-CY1JF244FY	240k 1/16W 1% Metal Oxide
R4240	VRS-CY1JF243FY	24k 1/16W 1% Metal Oxide
R4241	VRS-TV1JD101JY	100 1/10W 5% Metal Oxide
R4243	VRS-CY1JF104JY	100k 1/16W 5% Metal Oxide
R4244	VRS-TW2ED562JY	5.6k 1/4W 5% Metal Oxide
R4256	VRS-CY1JF104JY	100k 1/16W 5% Metal Oxide
R4261	VRS-TW2ED101JY	100 1/4W 5% Metal Oxide
R4262	VRS-CY1JF103JY	10k 1/16W 5% Metal Oxide
R4263	VRS-CY1JF330JY	33 1/16W 5% Metal Oxide
R4264	VRS-TW2ED101JY	100 1/4W 5% Metal Oxide
R4270	VRS-CY1JF104JY	100k 1/16W 5% Metal Oxide
R4271	VRS-CY1JF911FY	910 1/16W 1% Metal Oxide
R4272	VRS-CY1JF243FY	24k 1/16W 1% Metal Oxide
R4274	VRS-TV1JD000JY	0 1/10W 5% Metal Oxide
R4293	VRS-CY1JF101JY	100 1/16W 5% Metal Oxide
R4501	VRS-CY1JF101JY	100 1/16W 5% Metal Oxide
R4502	VRS-CY1JF101JY	100 1/16W 5% Metal Oxide
R4503	VRS-CY1JF472JY	4.7k 1/16W 5% Metal Oxide
R4504	VRS-CH1JF100JY	10 1/16W 5% Metal Oxide
R4505	VRS-CJ1JF330JY	33 1/16W 5% Metal Oxide
R4506	VRS-CH1JF100JY	10 1/16W 5% Metal Oxide
R4507	VRS-CJ1JF330JY	33 1/16W 5% Metal Oxide
R4508	VRS-CH1JF100JY	10 1/16W 5% Metal Oxide
R4509	VRS-CJ1JF330JY	33 1/16W 5% Metal Oxide
R4510	VRS-CY1JF133FY	13k 1/16W 1% Metal Oxide
R4511	VRS-CJ1JF330JY	33 1/16W 5% Metal Oxide
R4512	VRS-CH1JF390JY	39 1/16W 5% Metal Oxide
R4513	VRS-CH1JF390JY	39 1/16W 5% Metal Oxide
R4514	VRS-CH1JF390JY	39 1/16W 5% Metal Oxide
R4515	VRS-CH1JF390JY	39 1/16W 5% Metal Oxide
R4516	VRS-CH1JF390JY	39 1/16W 5% Metal Oxide
R4517	VRS-CH1JF390JY	39 1/16W 5% Metal Oxide
R4518	VRS-CH1JF390JY	39 1/16W 5% Metal Oxide
R4519	VRS-CH1JF390JY	39 1/16W 5% Metal Oxide
R4520	VRS-CH1JF390JY	39 1/16W 5% Metal Oxide
R4521	VRS-CH1JF390JY	39 1/16W 5% Metal Oxide
R4522	VRS-CH1JF390JY	39 1/16W 5% Metal Oxide
R4523	VRS-CY1JF472JY	4.7k 1/16W 5% Metal Oxide
R4524	VRS-CH1JF390JY	39 1/16W 5% Metal Oxide
R4525	VRS-CH1JF390JY	39 1/16W 5% Metal Oxide
R4526	VRS-CY1JF390JY	39 1/16W 5% Metal Oxide
R4527	VRS-CY1JF473JY	47k 1/16W 5% Metal Oxide
R4528	VRS-CY1JF101JY	100 1/16W 5% Metal Oxide
R4529	VRS-CY1JF101JY	100 1/16W 5% Metal Oxide
R4530	VRS-CY1JF101JY	100 1/16W 5% Metal Oxide
R4531	VRS-CY1JF101JY	100 1/16W 5% Metal Oxide
R4532	VRS-CY1JF101JY	100 1/16W 5% Metal Oxide
R4533	VRS-CY1JF472JY	4.7k 1/16W 5% Metal Oxide
R4534	VRS-CY1JF103JY	10k 1/16W 5% Metal Oxide
R4536	VRS-CY1JF000JY	0 1/16W 5% Metal Oxide
R4537	VRS-CY1JF000JY	0 1/16W 5% Metal Oxide
R4538	VRS-CY1JF104JY	100k 1/16W 5% Metal Oxide
R4601	VRS-CY1JF101FY	100 1/16W 1% Metal Oxide
R4602	VRS-CY1JF101FY	100 1/16W 1% Metal Oxide
R4603	VRS-CY1JF101FY	100 1/16W 1% Metal Oxide
R4604	VRS-CY1JF101FY	100 1/16W 1% Metal Oxide
R4605	VRS-CY1JF101FY	100 1/16W 1% Metal Oxide
R4607	VRS-CY1JF330JY	33 1/16W 5% Metal Oxide
R4608	VRS-CY1JF101JY	100 1/16W 5% Metal Oxide
R4609	VRS-CY1JF101JY	100 1/16W 5% Metal Oxide
R4610	VRS-CY1JF391JY	390 1/16W 5% Metal Oxide
R4619	VRS-CY1JF273JY	27k 1/16W 5% Metal Oxide
R4901	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4902	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4903	VRS-CY1JF101JY	100 1/16W 5% Metal Oxide
R4904	VRS-CY1JF101JY	100 1/16W 5% Metal Oxide

REF NO.	PART NUMBER	DESCRIPTION
R4905	VRS-CY1JF101JY	100 1/16W 5% Metal Oxide
R4907	VRS-CY1JF101JY	100 1/16W 5% Metal Oxide
R4909	VRS-CY1JF103JY	10k 1/16W 5% Metal Oxide
R4916	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4917	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4918	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4924	VRS-CY1JF334JY	330k 1/16W 5% Metal Oxide
R4925	VRS-CY1JF330JY	33 1/16W 5% Metal Oxide
R4926	VRS-CY1JF102JY	1.0k 1/16W 5% Metal Oxide
R4928	VRS-CY1JF334JY	330k 1/16W 5% Metal Oxide
R4929	VRS-CY1JF330JY	33 1/16W 5% Metal Oxide
R4930	VRS-CY1JF102JY	1.0k 1/16W 5% Metal Oxide
R4931	VRS-CY1JF514JY	510k 1/16W 5% Metal Oxide
R4932	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4933	VRS-CY1JF514JY	510k 1/16W 5% Metal Oxide
R4934	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4935	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4936	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4937	VRS-CY1JF514JY	510k 1/16W 5% Metal Oxide
R4938	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4939	VRS-CY1JF514JY	510k 1/16W 5% Metal Oxide
R4940	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4941	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4942	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4943	VRS-CY1JF514JY	510k 1/16W 5% Metal Oxide
R4944	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4945	VRS-CY1JF514JY	510k 1/16W 5% Metal Oxide
R4946	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4947	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4948	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4949	VRS-CY1JF514JY	510k 1/16W 5% Metal Oxide
R4950	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4951	VRS-CY1JF514JY	510k 1/16W 5% Metal Oxide
R4952	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4953	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4954	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4955	VRS-CY1JF514JY	510k 1/16W 5% Metal Oxide
R4956	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4957	VRS-CY1JF514JY	510k 1/16W 5% Metal Oxide
R4958	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4959	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4960	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R4961	VRS-CY1JF103JY	10k 1/16W 5% Metal Oxide
R7707	VRS-CY1JF223JY	22k 1/16W 5% Metal Oxide
R7708	VRS-CY1JF223JY	22k 1/16W 5% Metal Oxide
R7713	VRS-CY1JF104JY	100k 1/16W 5% Metal Oxide
R7714	VRS-CY1JF103JY	10k 1/16W 5% Metal Oxide
R7716	VRS-CY1JF223JY	22k 1/16W 5% Metal Oxide
R7717	VRS-CY1JF223JY	22k 1/16W 5% Metal Oxide
R7719	VRS-CY1JF101JY	100 1/16W 5% Metal Oxide
R7720	VRS-CY1JF101JY	100 1/16W 5% Metal Oxide
R7721	VRS-CY1JF101JY	100 1/16W 5% Metal Oxide
R7722	VRS-CY1JF101JY	100 1/16W 5% Metal Oxide
R7723	VRS-CY1JF103JY	10k 1/16W 5% Metal Oxide
R7724	VRS-TV1JD000JY	0 1/10W 5% Metal Oxide
MISCELLANEOUS PARTS		
FB4501	RBLN-0210TAZZY	Ferrite Bead
FB4502	RBLN-0210TAZZY	Ferrite Bead
FB4503	RBLN-0210TAZZY	Ferrite Bead
FB4504	RBLN-0210TAZZY	Ferrite Bead
FB4505	RBLN-A005WJZZY	Ferrite Bead
FB4601	RBLN-0210TAZZY	Ferrite Bead
FB4602	RBLN-0210TAZZY	Ferrite Bead
FB4603	RBLN-0210TAZZY	Ferrite Bead
FB7701	RBLN-A005WJZZY	Ferrite Bead
FB7702	RBLN-A005WJZZY	Ferrite Bead
FB7704	RBLN-A005WJZZY	Ferrite Bead
FB7705	RBLN-A005WJZZY	Ferrite Bead

REF NO.	PART NUMBER	DESCRIPTION
P7701	QPLGNA176WJZZY	Plug
P7703	QPLGNA174WJZZY	Plug
SC4601	QSOCNA426WJZZY	Socket
SC4651	QSOCNA222WJZZY	Socket
SC4652	QSOCNA222WJZZY	Socket
LUG7702	QLUGHA006WJZZY	Lug
LUG7703	QLUGHA006WJZZY	Lug
LUG7704	QLUGHA006WJZZY	Lug
LUG7705	QLUGHA006WJZZY	Lug
LUG7706	QLUGHA006WJZZY	Lug
Micro Processor Unit		
IC		
IC2301	RH-IXB345WJZZQ	Hd64F36049Hv
IC2302	VHIBD4729G+-1Y	Bd4729G-Tr
IC2303	VHiBR24L08F-1Y	Br24L08F-We2
IC2305	VHiTCVT244AFTY	Tc74Vhct244Aft
IC2306	VHIBD5224G+-1Y	Bd5224G-Tr
IC2307	VHiLVX125FT-1Y	Tc74Lvx125Ft
IC2308	VHiTC7SH08U-1Y	Tc7Sh08Fu
IC5701	VHIBD4746G+-1Y	Bd4746G-Tr
IC5702	VHiPQ1L503M-1Y	Pq1L503M2Sp
IC5703	VHiPQ1CZ21H-1Y	Pq1Cz21H2Zp
IC5704	VHiBA033FP/-1Y	Ba033Fp-E2
TRANSISTOR		
Q2301	VSDTC144EE/-1Y	TC144EE
Q2302	VSDTC144EE/-1Y	TC144EE
Q2303	VSDTC144EE/-1Y	TC144EE
DIODE		
D5701	VHDSFPB54//2EY	Diode
PACKAGED CIRCUIT		
X2301	RCRSC0032TAZZY	Crystal
FILTER AND COIL		
FL2301	RFILZ0169TAZZY	Filter
L5701	RCiLP0344TAZZY	Coil
L5702	RCiLP0343TAZZY	Coil
L5703	RCiLP0305TAZZY	Coil
CAPACITOR		
C2301	VCKYCY1EF104ZY	0.1 25V Ceramic
C2302	VCCCCY1HH220JY	22p 50V Ceramic
C2303	VCCCCY1HH220JY	22p 50V Ceramic
C2304	VCKYCY1EF104ZY	0.1 25V Ceramic
C2305	VCKYCY1EF104ZY	0.1 25V Ceramic
C2306	VCKYCY1HB102KY	1000p 50V Ceramic
C2307	VCKYCY1HB102KY	1000p 50V Ceramic
C2308	VCKYCY1EF104ZY	0.1 25V Ceramic
C2309	VCKYCY1HB103KY	0.01 50V Ceramic
C2310	VCKYCY1HB102KY	1000p 50V Ceramic
C2311	VCKYCY1HB102KY	1000p 50V Ceramic
C2312	VCKYCY1EF104ZY	0.1 25V Ceramic
C2313	VCKYCY1HB102KY	1000p 50V Ceramic
C2314	VCKYCY1EF104ZY	0.1 25V Ceramic
C2317	RC-KZA117WJZZY	Capacitor
C2318	VCKYCY1EF104ZY	0.1 25V Ceramic
C2319	VCKYCY1HB152KY	1500p 50V Ceramic
C2320	VCKYCY1EF104ZY	0.1 25V Ceramic
C2321	VCKYCY1EF104ZY	0.1 25V Ceramic
C2322	VCKYCY1EF104ZY	0.1 25V Ceramic
C5701	VCKYCY1EF104ZY	0.1 25V Ceramic
C5702	VCKYCY1EF104ZY	0.1 25V Ceramic
C5703	VCKYCY1HB103KY	0.01 50V Ceramic
C5704	VCEASY1CN107MY	100 16V Electrolytic
C5705	VCEASY1CN107MY	100 16V Electrolytic
C5706	VCKYCY1EF104ZY	0.1 25V Ceramic
C5707	VCKYCY1EF104ZY	0.1 25V Ceramic
C5708	VCEASX1CN226MY	22 16V Electrolytic
C5709	VCKYCY1EF104ZY	0.1 25V Ceramic
C5710	VCCCCY1HH681JY	680p 50V Ceramic
C5711	VCEASY1EN477MY	470 25V Electrolytic

	REF NO.	PART NUMBER	DESCRIPTION
	C5712	VCEASY1CN107MY	100 16V Electrolytic
	C5713	VCKYCY1EF104ZY	0.1 25V Ceramic
	C5727	VCAAPF1DJ826MY	82 20V Electrolytic
	C5734	VCKYCY1EF104ZY	0.1 25V Ceramic
RESISTOR			
	R2302	VRS-CY1JF223JY	22k 1/16W 5% Metal Oxide
	R2303	VRS-CY1JF223JY	22k 1/16W 5% Metal Oxide
	R2305	VRS-CY1JF394JY	390k 1/16W 5% Metal Oxide
	R2306	VRS-CY1JF106JY	10 M 1/16W 5% Metal Oxide
	R2307	VRS-CY1JF105JY	1.0 M 1/16W 5% Metal Oxide
	R2308	VRS-CH1JF100JY	10 1/16W 5% Metal Oxide
	R2310	VRS-CY1JF000JY	0 1/16W 5% Metal Oxide
	R2311	VRS-CY1JF223JY	22k 1/16W 5% Metal Oxide
	R2312	VRS-CY1JF223JY	22k 1/16W 5% Metal Oxide
	R2313	VRS-CY1JF223JY	22k 1/16W 5% Metal Oxide
	R2316	VRS-CY1JF272JY	2.7k 1/16W 5% Metal Oxide
	R2317	VRS-CY1JF683JY	68k 1/16W 5% Metal Oxide
	R2318	VRS-TV1JD000JY	0 1/10W 5% Metal Oxide
	R2319	VRS-CY1JF102JY	1.0k 1/16W 5% Metal Oxide
	R2320	VRS-CY1JF333JY	33k 1/16W 5% Metal Oxide
	R2321	VRS-CJ1JF100JY	10 1/16W 5% Metal Oxide
	R2322	VRS-CY1JF223JY	22k 1/16W 5% Metal Oxide
	R2323	VRS-CY1JF000JY	0 1/16W 5% Metal Oxide
	R2324	VRS-CY1JF223JY	22k 1/16W 5% Metal Oxide
	R2325	VRS-CY1JF101JY	100 1/16W 5% Metal Oxide
	R2326	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
	R2327	VRS-CY1JF223JY	22k 1/16W 5% Metal Oxide
	R2328	VRS-CJ1JF101JY	100 1/16W 5% Metal Oxide
	R2329	VRS-CY1JF223JY	22k 1/16W 5% Metal Oxide
	R2330	VRS-CY1JF101JY	100 1/16W 5% Metal Oxide
	R2331	VRS-CY1JF101JY	100 1/16W 5% Metal Oxide
	R2332	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
	R2333	VRS-CY1JF104JY	100k 1/16W 5% Metal Oxide
	R2334	VRS-CY1JF683JY	68k 1/16W 5% Metal Oxide
	R2335	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
	R2336	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
	R2337	VRS-CY1JF683JY	68k 1/16W 5% Metal Oxide
	R2338	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
	R2339	VRS-CY1JF223JY	22k 1/16W 5% Metal Oxide
	R2340	VRS-CY1JF223JY	22k 1/16W 5% Metal Oxide
	R2342	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
	R2343	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
	R2344	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
	R2346	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
	R2347	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
	R2348	VRS-CY1JF104JY	100k 1/16W 5% Metal Oxide
	R2349	VRS-CY1JF223JY	22k 1/16W 5% Metal Oxide
	R2350	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
	R2351	VRS-CJ1JF100JY	10 1/16W 5% Metal Oxide
	R2352	VRS-CH1JF100JY	10 1/16W 5% Metal Oxide
	R2353	VRS-CY1JF101JY	100 1/16W 5% Metal Oxide
	R2354	VRS-CY1JF104JY	100k 1/16W 5% Metal Oxide
	R2355	VRS-CY1JF104JY	100k 1/16W 5% Metal Oxide
	R2357	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
	R2358	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
	R2359	VRS-CY1JF101JY	100 1/16W 5% Metal Oxide
	R2360	VRS-CY1JF223JY	22k 1/16W 5% Metal Oxide
	R2361	VRS-CY1JF104JY	100k 1/16W 5% Metal Oxide
	R2362	VRS-CY1JF223JY	22k 1/16W 5% Metal Oxide
	R2363	VRS-CY1JF103JY	10k 1/16W 5% Metal Oxide
	R2364	VRS-CY1JF102JY	1.0k 1/16W 5% Metal Oxide
	R2365	VRS-CJ1JF333JY	33k 1/16W 5% Metal Oxide
	R2366	VRS-CY1JF102JY	1.0k 1/16W 5% Metal Oxide
	R2368	VRS-CY1JF223JY	22k 1/16W 5% Metal Oxide
	R2369	VRS-CY1JF223JY	22k 1/16W 5% Metal Oxide
	R2371	VRS-CY1JF223JY	22k 1/16W 5% Metal Oxide
	R2373	VRS-CY1JF223JY	22k 1/16W 5% Metal Oxide
	R2374	VRS-CY1JF223JY	22k 1/16W 5% Metal Oxide

REF NO.	PART NUMBER	DESCRIPTION
R2375	VRS-CY1JF223JY	22k 1/16W 5% Metal Oxide
R2376	VRS-CY1JF103JY	10k 1/16W 5% Metal Oxide
R2377	VRS-CY1JF103JY	10k 1/16W 5% Metal Oxide
R2380	VRS-CY1JF102JY	1.0k 1/16W 5% Metal Oxide
R2381	VRS-CY1JF102JY	1.0k 1/16W 5% Metal Oxide
R2382	VRS-CY1JF104JY	100k 1/16W 5% Metal Oxide
R2383	VRS-CY1JF104JY	100k 1/16W 5% Metal Oxide
R2387	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R2388	VRS-CY1JF100JY	10 1/16W 5% Metal Oxide
R2389	VRS-CY1JF223JY	22k 1/16W 5% Metal Oxide
R3203	VRS-TV1JD000JY	0 1/10W 5% Metal Oxide
R3204	VRS-TV1JD000JY	0 1/10W 5% Metal Oxide
R5702	VRS-CY1JF153FY	15k 1/16W 1% Metal Oxide
R5703	VRS-CY1JF103FY	10k 1/16W 1% Metal Oxide
R5704	VRS-CY1JF472JY	4.7k 1/16W 5% Metal Oxide
R5705	VRS-CY1JF103JY	10k 1/16W 5% Metal Oxide
R5706	VRS-TV1JD000JY	0 1/10W 5% Metal Oxide
R5707	VRS-TV1JD000JY	0 1/10W 5% Metal Oxide
R5713	VRS-CY1JF102FY	1.0k 1/16W 1% Metal Oxide
R5714	VRS-CY1JF101JY	100 1/16W 5% Metal Oxide
R5715	VRS-CY1JF562FY	5.6k 1/16W 1% Metal Oxide
R5716	VRS-CY1JF622FY	6.2k 1/16W 1% Metal Oxide
R5721	VRS-TV1JD000JY	0 1/10W 5% Metal Oxide
MISCELLANEOUS PARTS		
FB2301	RBLN-A005WJZZY	Ferrit Bead
FB2302	RBLN-A005WJZZY	Ferrit Bead
FB2303	RBLN-A005WJZZY	Ferrit Bead
FB2304	RBLN-A005WJZZY	Ferrit Bead
FB2305	RBLN-A005WJZZY	Ferrit Bead
FB2306	RBLN-A005WJZZY	Ferrit Bead
FB2307	RBLN-A005WJZZY	Ferrit Bead
FB2308	RBLN-A005WJZZY	Ferrit Bead
FB3200	RBLN-A005WJZZY	Ferrit Bead
FB5701	RBLN-0252TAZZY	Ferrit Bead
P2301	QPLGN0057CEZZY	Plug
P2302	QPLGN0064CEZZY	Plug
P2303	QPLGN0055CEZZY	Plug
P2304	QPLGN0059CEZZY	Plug
P3200	QPLGNA342WJZZY	Plug
P3201	QPLGNA346WJZZY	Plug
P3202	QPLGNA339WJZZY	Plug
P5701	QPLGNA177WJZZY	Plug
P5702	QPLGNA341WJZZY	Plug
SC3200	QSOCNA542WJPZY	Socket
SC3201	QSOCNA543WJPZY	Socket
SC3202	QSOCNA540WJPZY	Socket
LUG5701	QLUGHA006WJZZY	Lug
LUG5702	QLUGHA006WJZZY	Lug
LUG5703	QLUGHA006WJZZY	Lug
LUG5704	QLUGHA006WJZZY	Lug
INVERTER A UNIT		
IC		
IC7501	VHIBD9766FV-1	BD9766FV
IC7502	VHIBA00ASFP-1	BA00ASFP
TRANSISTOR		
Q7501	VSRSS075P03-1	RSS075P03
Q7502	VSRSS100N03-1	RSS100N03
Q7503	VSRSS075P03-1	RSS075P03
Q7504	VSRSS100N03-1	RSS100N03
Q7505	VSRSS075P03-1	RSS075P03
Q7506	VSRSS100N03-1	RSS100N03
Q7507	VSRSS075P03-1	RSS075P03
Q7508	VSRSS100N03-1	RSS100N03
Q7509	VSRSS075P03-1	RSS075P03
Q7510	VSRSS100N03-1	RSS100N03
Q7511	VSUM6K1N///-1	UM6K1N
DIODE		
D7501	VHDDAN217U/-1	DAN217U

REF NO.	PART NUMBER	DESCRIPTION
D7502	VHDDAN217U/-1	DAN217U
D7503	VHDDAN217U/-1	DAN217U
D7504	VHDDAN217U/-1	DAN217U
D7505	VHDDAN217U/-1	DAN217U
D7506	VHDDAN217U/-1	DAN217U
D7507	VHDDAN217U/-1	DAN217U
D7508	VHDDAN217U/-1	DAN217U
D7509	VHDDAN217U/-1	DAN217U
D7510	VHDDAN217U/-1	DAN217U
D7511	VHDRSX30130P1	RSX301LA-30
D7512	VHDRSX30130P1	RSX301LA-30
D7513	VHDRSX30130P1	RSX301LA-30
D7514	VHDRSX30130P1	RSX301LA-30
D7515	VHDRSX30130P1	RSX301LA-30
D7516	VHDRSX30130P1	RSX301LA-30
D7517	VHDRSX30130P1	RSX301LA-30
D7518	VHDRSX30130P1	RSX301LA-30
D7519	VHDRSX30130P1	RSX301LA-30
D7520	VHDRSX30130P1	RSX301LA-30
D7521	VHEUDZS8.2B-1	UDZS8.2B
D7522	VHEUDZS8.2B-1	UDZS8.2B
D7523	VHEUDZS8.2B-1	UDZS8.2B
D7524	VHD1SS355/-1	1SS355
TRANSFORMER		
T7501	RTRNZ1292SNPZ	CLT4123
T7502	RTRNZ1292SNPZ	CLT4123
T7503	RTRNZ1292SNPZ	CLT4123
T7504	RTRNZ1292SNPZ	CLT4123
T7505	RTRNZ1292SNPZ	CLT4123
T7506	RTRNZ1292SNPZ	CLT4123
T7507	RTRNZ1292SNPZ	CLT4123
T7508	RTRNZ1292SNPZ	CLT4123
T7509	RTRNZ1292SNPZ	CLT4123
T7510	RTRNZ1292SNPZ	CLT4123
CAPACITOR		
C7501	VCKYCY1HB153K	0.015uF 50V CERAMIC
C7502	RC-ECC3H100PY	10pF 5kV CERAMIC
C7503	RC-ECC3H100PY	10pF 5kV CERAMIC
C7504	VCKYCY1HB153K	0.015uF 50V CERAMIC
C7505	VCKYCY1HB153K	0.015uF 50V CERAMIC
C7506	RC-ECC3H100PY	10pF 5kV CERAMIC
C7507	RC-ECC3H100PY	10pF 5kV CERAMIC
C7508	VCKYCY1HB153K	0.015uF 50V CERAMIC
C7510	VCKYCY1HB153K	0.015uF 50V CERAMIC
C7511	RC-ECC3H100PY	10pF 5kV CERAMIC
C7512	RC-ECC3H100PY	10pF 5kV CERAMIC
C7513	VCKYCY1HB153K	0.015uF 50V CERAMIC
C7514	VCKYCY1HB153K	0.015uF 50V CERAMIC
C7515	RC-ECC3H100PY	10pF 5kV CERAMIC
C7516	RC-ECC3H100PY	10pF 5kV CERAMIC
C7517	VCKYCY1HB153K	0.015uF 50V CERAMIC
C7518	VCKYCY1HB153K	0.015uF 50V CERAMIC
C7519	RC-ECC3H100PY	10pF 5kV CERAMIC
C7520	RC-ECC3H100PY	10pF 5kV CERAMIC
C7521	VCKYCY1HB153K	0.015uF 50V CERAMIC
C7523	VCKYTQ1EB475K	4.7uF 25V CERAMIC
C7524	VCKYTQ1EB475K	4.7uF 25V CERAMIC
C7525	VCKYTQ1EB475K	4.7uF 25V CERAMIC
C7526	VCKYTQ1EB475K	4.7uF 25V CERAMIC
C7527	VCKYTQ1EB475K	4.7uF 25V CERAMIC
C7528	VCKYTQ1EB475K	4.7uF 25V CERAMIC
C7529	VCKYTQ1EB475K	4.7uF 25V CERAMIC
C7530	VCKYTQ1EB475K	4.7uF 25V CERAMIC
C7531	VCKYTQ1EB475K	4.7uF 25V CERAMIC
C7532	VCKYTQ1EB475K	4.7uF 25V CERAMIC
C7533	VCKYCY1CB473K	0.047uF 16V CERAMIC
C7534	VCKYCY1CB473K	0.047uF 16V CERAMIC
C7535	VCKYCY1CB473K	0.047uF 16V CERAMIC

REF NO.	PART NUMBER	DESCRIPTION
C7536	RC-E1E477HVPZ	470uF 25V ELECTROLYTIC
C7537	RC-E1E477HVPZ	470uF 25V ELECTROLYTIC
C7538	RC-E1E477HVPZ	470uF 25V ELECTROLYTIC
C7539	RC-E1E477HVPZ	470uF 25V ELECTROLYTIC
C7540	RC-E1E477HVPZ	470uF 25V ELECTROLYTIC
C7541	VCKYTQ1EB475K	4.7uF 25V CERAMIC
C7542	VCKYCY1AB225K	2.2uF 10V CERAMIC
C7543	VCKYCY1AB225K	2.2uF 10V CERAMIC
C7544	VCKYCY1CB224K	0.22uF 16V CERAMIC
C7545	VCKYCY1CB104K	0.1uF 16V CERAMIC
C7546	VCKYCY1HB472K	4700pF 50V CERAMIC
C7547	VCKYCY1HB222K	2200pF 50V CERAMIC
C7550	VCKYCY1HB222K	2200pF 50V CERAMIC
C7551	VCKYCY1HB472K	4700pF 50V CERAMIC
C7552	VCCCCY1HH331J	330pF 50V CERAMIC
C7556	VCKYCY1HB103K	0.01uF 50V CERAMIC
RESISTOR		
R7501	VRS-CY1JD333F	33KΩ 1/10W
R7502	VRS-CY1JD753F	75KΩ 1/10W
R7503	VRS-CY1JD333F	33KΩ 1/10W
R7504	VRS-CY1JD753F	75KΩ 1/10W
R7505	VRS-CY1JD000J	0Ω 1/10W
R7506	VRS-CY1JD000J	0Ω 1/10W
R7507	VRS-TS2AD000J	0Ω 1/8W
R7508	VRS-CY1JD103F	10KΩ 1/10W
R7509	VRS-TS2AD000J	0Ω 1/8W
R7510	VRS-TS2AD000J	0Ω 1/8W
R7511	VRS-TS2AD000J	0Ω 1/8W
R7512	VRS-CY1JD103F	10KΩ 1/10W
R7513	VRS-TS2AD000J	0Ω 1/8W
R7514	VRS-TS2AD000J	0Ω 1/8W
R7515	VRS-TS2AD000J	0Ω 1/8W
R7516	VRS-TS2AD000J	0Ω 1/8W
R7517	VRS-TS2AD000J	0Ω 1/8W
R7518	VRS-CY1JD103F	10KΩ 1/10W
R7519	VRS-TS2AD000J	0Ω 1/8W
R7520	VRS-CY1JD113F	11KΩ 1/10W
R7521	VRS-CY1JD202F	2KΩ 1/10W
R7522	VRS-CY1JD000J	0Ω 1/10W
R7526	VRS-CY1JD101J	100Ω 1/10W
R7529	VRS-CY1JD103F	10KΩ 1/10W
R7530	VRS-CY1JD103F	10KΩ 1/10W
R7531	VRS-CY1JD101J	100Ω 1/10W
R7532	VRS-CY1JD101J	100Ω 1/10W
R7533	VRS-CY1JD104F	100KΩ 1/10W
R7534	VRS-CY1JD112F	1.1KΩ 1/10W
R7537	VRS-CY1JD112F	1.1KΩ 1/10W
R7538	VRS-CY1JD104F	100KΩ 1/10W
R7539	VRS-CY1JD753F	75KΩ 1/10W
R7540	VRS-CY1JD753F	75KΩ 1/10W
R7542	VRS-CY1JD363F	36KΩ 1/10W
R7543	VRS-CY1JD683F	68KΩ 1/10W
R7544	VRS-CY1JD683F	68KΩ 1/10W
R7545	VRS-CY1JD102F	1KΩ 1/10W
R7547	VRS-CY1JD101J	100Ω 1/10W
R7549	VRS-CY1JD102F	1KΩ 1/10W
R7550	VRS-CY1JD513F	51KΩ 1/10W
R7551	VRS-CY1JD473F	47KΩ 1/10W
R7552	VRS-CY1JD513F	51KΩ 1/10W
R7553	VRS-TS2AD000J	0Ω 1/8W
R7554	VRS-TS2AD000J	0Ω 1/8W
FUSE		
F7501	QFS-A1152SNEZ	6.3A 250V
F7502	QFS-A1152SNEZ	6.3A 250V
F7503	QFS-A1152SNEZ	6.3A 250V
MISCELLANEOUS PART		
P7501	QCNCM1821SNEZ	1717823-1
P7502	QCNCM1821SNEZ	1717823-1

	REF NO.	PART NUMBER	DESCRIPTION
	P7503	QCNCM1821SNEZ	1717823-1
	P7504	QCNCM1821SNEZ	1717823-1
	P7505	QCNCM1821SNEZ	1717823-1
	P7506	QCNCM1828SNEZ	B3PS-VH
	P7507	QCNCM1819SNEZ	B12B-PASK-1
	P7508	QCNCM1826SNEZ	12PL-FJ
INVERTER B UNIT			
IC			
	IC7402	VHIBD9766FV-1	BD9766FV
TRANSISTOR			
	Q7401	VSRSS075P03-1	RSS075P03
	Q7402	VSRSS100N03-1	RSS100N03
	Q7403	VSRSS075P03-1	RSS075P03
	Q7404	VSRSS100N03-1	RSS100N03
	Q7405	VSRSS075P03-1	RSS075P03
	Q7406	VSRSS100N03-1	RSS100N03
	Q7407	VSRSS075P03-1	RSS075P03
	Q7408	VSRSS100N03-1	RSS100N03
	Q7409	VSRSS075P03-1	RSS075P03
	Q7410	VSRSS100N03-1	RSS100N03
	Q7411	VSUM6K1N///-1	UM6K1N
DIODE			
	D7401	VHDDAN217U/-1	DAN217U
	D7402	VHDDAN217U/-1	DAN217U
	D7403	VHDDAN217U/-1	DAN217U
	D7404	VHDDAN217U/-1	DAN217U
	D7405	VHDDAN217U/-1	DAN217U
	D7406	VHDDAN217U/-1	DAN217U
	D7407	VHDDAN217U/-1	DAN217U
	D7408	VHDDAN217U/-1	DAN217U
	D7409	VHDDAN217U/-1	DAN217U
	D7410	VHDDAN217U/-1	DAN217U
	D7411	VHDRSX30130P1	RSX301LA-30
	D7412	VHDRSX30130P1	RSX301LA-30
	D7413	VHDRSX30130P1	RSX301LA-30
	D7414	VHDRSX30130P1	RSX301LA-30
	D7415	VHDRSX30130P1	RSX301LA-30
	D7416	VHDRSX30130P1	RSX301LA-30
	D7417	VHDRSX30130P1	RSX301LA-30
	D7418	VHDRSX30130P1	RSX301LA-30
	D7419	VHDRSX30130P1	RSX301LA-30
	D7420	VHDRSX30130P1	RSX301LA-30

REF NO.	PART NUMBER	DESCRIPTION
D7421	VHEUDZS8.2B-1	UDZS8.2B
D7422	VHEUDZS8.2B-1	UDZS8.2B
D7423	VHEUDZS8.2B-1	UDZS8.2B
D7424	VHD1SS355/-1	1SS355
TRANSFORMER		
T7401	RTRNZ1292SNPZ	CLT4123
T7402	RTRNZ1292SNPZ	CLT4123
T7403	RTRNZ1292SNPZ	CLT4123
T7404	RTRNZ1292SNPZ	CLT4123
T7405	RTRNZ1292SNPZ	CLT4123
T7406	RTRNZ1292SNPZ	CLT4123
T7407	RTRNZ1292SNPZ	CLT4123
T7408	RTRNZ1292SNPZ	CLT4123
T7409	RTRNZ1292SNPZ	CLT4123
T7410	RTRNZ1292SNPZ	CLT4123
CAPACITOR		
C7401	VCKYCY1HB153K	0.015uF 50V CERAMIC
C7402	RC-ECC3H100PY	10pF 5kV CERAMIC
C7403	RC-ECC3H100PY	10pF 5kV CERAMIC
C7404	VCKYCY1HB153K	0.015uF 50V CERAMIC
C7405	VCKYCY1HB153K	0.015uF 50V CERAMIC
C7406	RC-ECC3H100PY	10pF 5kV CERAMIC
C7407	RC-ECC3H100PY	10pF 5kV CERAMIC
C7408	VCKYCY1HB153K	0.015uF 50V CERAMIC
C7410	VCKYCY1HB153K	0.015uF 50V CERAMIC
C7411	RC-ECC3H100PY	10pF 5kV CERAMIC
C7412	RC-ECC3H100PY	10pF 5kV CERAMIC
C7413	VCKYCY1HB153K	0.015uF 50V CERAMIC
C7414	VCKYCY1HB153K	0.015uF 50V CERAMIC
C7415	RC-ECC3H100PY	10pF 5kV CERAMIC
C7416	RC-ECC3H100PY	10pF 5kV CERAMIC
C7417	VCKYCY1HB153K	0.015uF 50V CERAMIC
C7418	VCKYCY1HB153K	0.015uF 50V CERAMIC
C7419	RC-ECC3H100PY	10pF 5kV CERAMIC
C7420	RC-ECC3H100PY	10pF 5kV CERAMIC
C7421	VCKYCY1HB153K	0.015uF 50V CERAMIC
C7423	VCKYTQ1EB475K	4.7uF 25V CERAMIC
C7424	VCKYTQ1EB475K	4.7uF 25V CERAMIC
C7425	VCKYTQ1EB475K	4.7uF 25V CERAMIC
C7426	VCKYTQ1EB475K	4.7uF 25V CERAMIC
C7427	VCKYTQ1EB475K	4.7uF 25V CERAMIC
C7428	VCKYTQ1EB475K	4.7uF 25V CERAMIC
C7429	VCKYTQ1EB475K	4.7uF 25V CERAMIC
C7430	VCKYTQ1EB475K	4.7uF 25V CERAMIC
C7431	VCKYTQ1EB475K	4.7uF 25V CERAMIC
C7432	VCKYTQ1EB475K	4.7uF 25V CERAMIC
C7433	VCKYCY1CB473K	0.047uF 16V CERAMIC
C7434	VCKYCY1CB473K	0.047uF 16V CERAMIC
C7435	VCKYCY1CB473K	0.047uF 16V CERAMIC
C7436	RC-E1E477HVPZ	470uF 25V ELECTROLYTIC
C7437	RC-E1E477HVPZ	470uF 25V ELECTROLYTIC
C7438	RC-E1E477HVPZ	470uF 25V ELECTROLYTIC
C7439	RC-E1E477HVPZ	470uF 25V ELECTROLYTIC
C7440	RC-E1E477HVPZ	470uF 25V ELECTROLYTIC
C7441	VCKYTQ1EB475K	4.7uF 25V CERAMIC
C7442	VCKYCY1AB225K	2.2uF 10V CERAMIC
C7443	VCKYCY1AB225K	2.2uF 10V CERAMIC
C7444	VCKYCY1CB224K	0.22uF 16V CERAMIC
C7445	VCKYCY1CB104K	0.1uF 16V CERAMIC
C7446	VCKYCY1HB472K	4700pF 50V CERAMIC
C7447	VCKYCY1HB222K	2200pF 50V CERAMIC
C7450	VCKYCY1HB222K	2200pF 50V CERAMIC
C7451	VCKYCY1HB472K	4700pF 50V CERAMIC

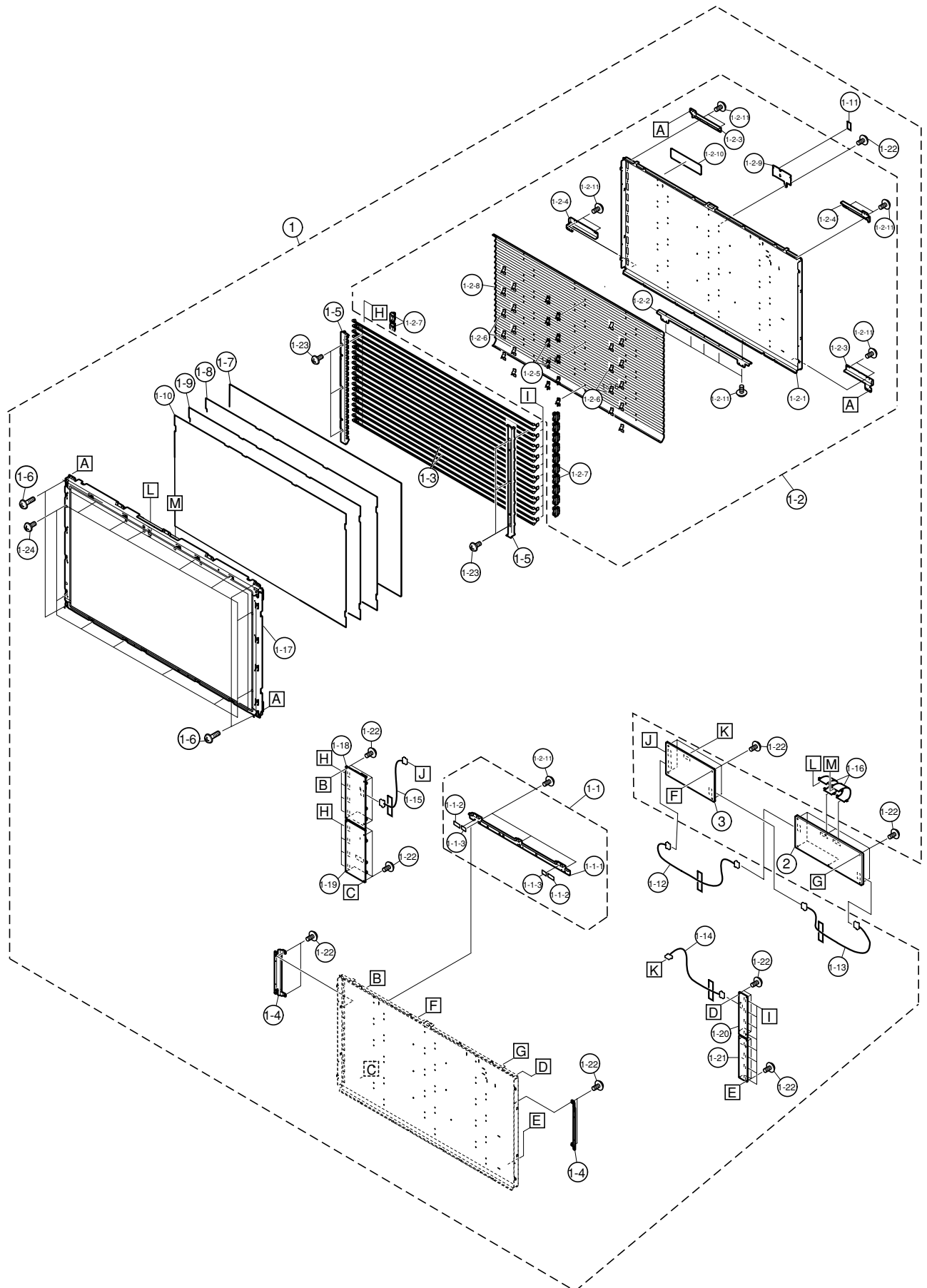
	REF NO.	PART NUMBER	DESCRIPTION
	C7452	VCCCCY1HH331J	330pF 50V CERAMIC
RESISTOR			
	R7401	VRS-CY1JD333F	33KΩ 1/10W
	R7402	VRS-CY1JD753F	75KΩ 1/10W
	R7403	VRS-CY1JD000J	0Ω 1/10W
	R7404	VRS-CY1JD333F	33KΩ 1/10W
	R7405	VRS-CY1JD753F	75KΩ 1/10W
	R7406	VRS-CY1JD000J	0Ω 1/10W
	R7407	VRS-TS2AD000J	0Ω 1/8W
	R7408	VRS-CY1JD103F	10KΩ 1/10W
	R7409	VRS-TS2AD000J	0Ω 1/8W
	R7410	VRS-TS2AD000J	0Ω 1/8W
	R7411	VRS-TS2AD000J	0Ω 1/8W
	R7412	VRS-TS2AD000J	0Ω 1/8W
	R7413	VRS-CY1JD103F	10KΩ 1/10W
	R7414	VRS-TS2AD000J	0Ω 1/8W
	R7415	VRS-TS2AD000J	0Ω 1/8W
	R7416	VRS-TS2AD000J	0Ω 1/8W
	R7417	VRS-TS2AD000J	0Ω 1/8W
	R7418	VRS-CY1JD103F	10KΩ 1/10W
	R7419	VRS-TS2AD000J	0Ω 1/8W
	R7420	VRS-CY1JD101J	100Ω 1/10W
	R7422	VRS-CY1JD103F	10KΩ 1/10W
	R7423	VRS-CY1JD103F	10KΩ 1/10W
	R7424	VRS-CY1JD101J	100Ω 1/10W
	R7425	VRS-CY1JD101J	100Ω 1/10W
	R7426	VRS-CY1JD104F	100KΩ 1/10W
	R7427	VRS-CY1JD112F	1.1KΩ 1/10W
	R7431	VRS-CY1JD112F	1.1KΩ 1/10W
	R7432	VRS-CY1JD104F	100KΩ 1/10W
	R7433	VRS-CY1JD753F	75KΩ 1/10W
	R7434	VRS-CY1JD753F	75KΩ 1/10W
	R7436	VRS-CY1JD363F	36KΩ 1/10W
	R7437	VRS-CY1JD683F	68KΩ 1/10W
	R7438	VRS-CY1JD683F	68KΩ 1/10W
	R7439	VRS-CY1JD102F	1KΩ 1/10W
	R7441	VRS-CY1JD101J	100Ω 1/10W
	R7442	VRS-CY1JD473F	47KΩ 1/10W
	R7443	VRS-CY1JD513F	51KΩ 1/10W
	R7444	VRS-CY1JD513F	51KΩ 1/10W
	R7445	VRS-CY1JD102F	1KΩ 1/10W
	R7446	VRS-TS2AD000J	0Ω 1/8W
FUSE			
	F7401	QFS-A1152SNEZ	6.3A 250V
	F7402	QFS-A1152SNEZ	6.3A 250V
	F7403	QFS-A1152SNEZ	6.3A 250V
MISCELLANEOUS PART			
	P7401	QCNCM1821SNEZ	1717823-1
	P7402	QCNCM1821SNEZ	1717823-1
	P7403	QCNCM1821SNEZ	1717823-1
	P7404	QCNCM1821SNEZ	1717823-1
	P7405	QCNCM1821SNEZ	1717823-1
	P7406	QCNCM1775SNEZ	B2PS-VH
	P7407	QCNCM1827SNEZ	12R-FJ
INVERTER A GND UNIT			
TRANSITOR			
	Q7601	VSUM6K1N///-1	UM6K1N
	Q7602	VSUM6K1N///-1	UM6K1N
	Q7603	VSUM6K1N///-1	UM6K1N
	Q7604	VSUM6K1N///-1	UM6K1N
	Q7605	VSUM6K1N///-1	UM6K1N
	Q7606	VSUM6K1N///-1	UM6K1N
	Q7607	VSUM6K1N///-1	UM6K1N

	REF NO.	PART NUMBER	DESCRIPTION
DIODE	Q7608	VSUM6K1N//1	UM6K1N
	D7601	VHD1SS355//1	1SS355
	D7602	VHD1SS355//1	1SS355
	D7603	VHD1SS355//1	1SS355
	D7604	VHD1SS355//1	1SS355
	D7605	VHD1SS355//1	1SS355
	D7606	VHD1SS355//1	1SS355
	D7607	VHD1SS355//1	1SS355
	D7608	VHD1SS355//1	1SS355
	D7610	VHDDAN217U/-1	DAN217U
	D7619	VHDDAN217U/-1	DAN217U
CAPACITOR			
	C7601	VCKYCY1CB224K	0.22uF 16V CERAMIC
	C7602	VCKYCY1CB224K	0.22uF 16V CERAMIC
	C7603	VCKYCY1CB224K	0.22uF 16V CERAMIC
	C7604	VCKYCY1CB224K	0.22uF 16V CERAMIC
	C7605	VCKYCY1CB224K	0.22uF 16V CERAMIC
	C7606	VCKYCY1CB224K	0.22uF 16V CERAMIC
	C7607	VCKYCY1CB224K	0.22uF 16V CERAMIC
	C7608	VCKYCY1CB224K	0.22uF 16V CERAMIC
RESISTOR			
	R7600	VRS-CY1JD272F	2.7KΩ 1/10W
	R7601	VRS-CY1JD302F	3KΩ 1/10W
	R7603	VRS-CY1JD000J	0Ω 1/10W
	R7605	VRS-CY1JD102J	1KΩ 1/10W
	R7607	VRS-CY1JD155J	1.5MΩ 1/10W
	R7609	VRS-CY1JD104J	100KΩ 1/10W
	R7610	VRS-CY1JD102J	1KΩ 1/10W
	R7612	VRS-CY1JD155J	1.5MΩ 1/10W
	R7614	VRS-CY1JD104J	100KΩ 1/10W
	R7615	VRS-CY1JD102J	1KΩ 1/10W
	R7617	VRS-CY1JD155J	1.5MΩ 1/10W
	R7619	VRS-CY1JD104J	100KΩ 1/10W
	R7620	VRS-CY1JD102J	1KΩ 1/10W
	R7622	VRS-CY1JD155J	1.5MΩ 1/10W
	R7624	VRS-CY1JD104J	100KΩ 1/10W
	R7625	VRS-CY1JD102J	1KΩ 1/10W
	R7627	VRS-CY1JD155J	1.5MΩ 1/10W
	R7629	VRS-CY1JD104J	100KΩ 1/10W
	R7630	VRS-CY1JD102J	1KΩ 1/10W
	R7632	VRS-CY1JD155J	1.5MΩ 1/10W
	R7634	VRS-CY1JD104J	100KΩ 1/10W
	R7635	VRS-CY1JD102J	1KΩ 1/10W
	R7637	VRS-CY1JD155J	1.5MΩ 1/10W
	R7639	VRS-CY1JD104J	100KΩ 1/10W
	R7640	VRS-CY1JD102J	1KΩ 1/10W
	R7642	VRS-CY1JD155J	1.5MΩ 1/10W
	R7644	VRS-CY1JD104J	100KΩ 1/10W
	R7645	VRS-CY1JD272F	2.7KΩ 1/10W
	R7646	VRS-CY1JD302F	3KΩ 1/10W
	R7648	VRS-CY1JD000J	0Ω 1/10W
MISCELLANEOUS PART			
	P7600	QCNCM1821SNEZ	1717823-1
	P7601	QCNCM1821SNEZ	1717823-1
	P7602	QCNCM1821SNEZ	1717823-1
	P7603	QCNCM1821SNEZ	1717823-1
	P7604	QCNCM1821SNEZ	1717823-1
	P7605	QCNCM1844SNEZ	SM08B-PASS-TBT
	P7606	QCNCM1841SNEZ	SM05B-PASS-TBT
	JP7600	VRS-TS2AD000J	0Ω 1/8W
	JP7601	VRS-TS2AD000J	0Ω 1/8W
	JP7602	VRS-TS2AD000J	0Ω 1/8W
	JP7603	VRS-TS2AD000J	0Ω 1/8W
	JP7604	VRS-TS2AD000J	0Ω 1/8W
	JP7605	VRS-TS2AD000J	0Ω 1/8W
	JP7606	VRS-TS2AD000J	0Ω 1/8W
	JP7607	VRS-TS2AD000J	0Ω 1/8W

	REF NO.	PART NUMBER	DESCRIPTION
	JP7608	VRS-TS2AD000J	0Ω 1/8W
	JP7609	VRS-TS2AD000J	0Ω 1/8W
INVERTER B GND			
TRANSISTOR			
	Q7651	VSUM6K1N///-1	UM6K1N
	Q7652	VSUM6K1N///-1	UM6K1N
	Q7653	VSUM6K1N///-1	UM6K1N
	Q7654	VSUM6K1N///-1	UM6K1N
	Q7655	VSUM6K1N///-1	UM6K1N
	Q7656	VSUM6K1N///-1	UM6K1N
	Q7657	VSUM6K1N///-1	UM6K1N
	Q7658	VSUM6K1N///-1	UM6K1N
THERMISTOR			
	TH7650	VHH18XH103J03	NCP18XH103J03RB
DIODE			
	D7651	VHD1SS355//1	1SS355
	D7652	VHD1SS355//1	1SS355
	D7653	VHD1SS355//1	1SS355
	D7654	VHD1SS355//1	1SS355
	D7655	VHD1SS355//1	1SS355
	D7656	VHD1SS355//1	1SS355
	D7657	VHD1SS355//1	1SS355
	D7658	VHD1SS355//1	1SS355
	D7660	VHDDAN217U/-1	DAN217U
	D7669	VHDDAN217U/-1	DAN217U
CAPACITOR			
	C7651	VCKYCY1CB224K	0.22uF 16V CERAMIC
	C7652	VCKYCY1CB224K	0.22uF 16V CERAMIC
	C7653	VCKYCY1CB224K	0.22uF 16V CERAMIC
	C7654	VCKYCY1CB224K	0.22uF 16V CERAMIC
	C7655	VCKYCY1CB224K	0.22uF 16V CERAMIC
	C7656	VCKYCY1CB224K	0.22uF 16V CERAMIC
	C7657	VCKYCY1CB224K	0.22uF 16V CERAMIC
	C7658	VCKYCY1CB224K	0.22uF 16V CERAMIC
RESISTOR			
	R7650	VRS-CY1JD272F	2.7KΩ 1/10W
	R7651	VRS-CY1JD302F	3KΩ 1/10W
	R7653	VRS-CY1JD000J	0Ω 1/10W
	R7655	VRS-CY1JD102J	1KΩ 1/10W
	R7657	VRS-CY1JD155J	1.5MΩ 1/10W
	R7659	VRS-CY1JD104J	100KΩ 1/10W
	R7660	VRS-CY1JD102J	1KΩ 1/10W
	R7662	VRS-CY1JD155J	1.5MΩ 1/10W
	R7664	VRS-CY1JD104J	100KΩ 1/10W
	R7665	VRS-CY1JD102J	1KΩ 1/10W
	R7667	VRS-CY1JD155J	1.5MΩ 1/10W
	R7669	VRS-CY1JD104J	100KΩ 1/10W
	R7670	VRS-CY1JD102J	1KΩ 1/10W
	R7672	VRS-CY1JD155J	1.5MΩ 1/10W
	R7674	VRS-CY1JD104J	100KΩ 1/10W
	R7675	VRS-CY1JD102J	1KΩ 1/10W
	R7677	VRS-CY1JD155J	1.5MΩ 1/10W
	R7679	VRS-CY1JD104J	100KΩ 1/10W
	R7680	VRS-CY1JD102J	1KΩ 1/10W
	R7682	VRS-CY1JD155J	1.5MΩ 1/10W
	R7684	VRS-CY1JD104J	100KΩ 1/10W
	R7685	VRS-CY1JD102J	1KΩ 1/10W
	R7687	VRS-CY1JD155J	1.5MΩ 1/10W
	R7689	VRS-CY1JD104J	100KΩ 1/10W
	R7690	VRS-CY1JD102J	1KΩ 1/10W
	R7692	VRS-CY1JD155J	1.5MΩ 1/10W
	R7694	VRS-CY1JD104J	100KΩ 1/10W
	R7695	VRS-CY1JD272F	2.7KΩ 1/10W
	R7696	VRS-CY1JD302F	3KΩ 1/10W
	R7698	VRS-CY1JD000J	0Ω 1/10W
MISCELLANEOUS PART			
	P7650	QCNCM1821SNEZ	1717823-1
	P7651	QCNCM1821SNEZ	1717823-1

REF NO.	PART NUMBER	DESCRIPTION
P7652	QCNCM1821SNEZ	1717823-1
P7653	QCNCM1821SNEZ	1717823-1
P7654	QCNCM1821SNEZ	1717823-1
P7655	QCNCM1841SNEZ	SM05B-PASS-TBT
JP7650	VRS-TS2AD000J	0Ω 1/8W
JP7651	VRS-TS2AD000J	0Ω 1/8W
JP7652	VRS-TS2AD000J	0Ω 1/8W
JP7653	VRS-TS2AD000J	0Ω 1/8W
JP7654	VRS-TS2AD000J	0Ω 1/8W
JP7655	VRS-TS2AD000J	0Ω 1/8W
JP7656	VRS-TS2AD000J	0Ω 1/8W
JP7657	VRS-TS2AD000J	0Ω 1/8W
JP7658	VRS-TS2AD000J	0Ω 1/8W
JP7659	VRS-TS2AD000J	0Ω 1/8W
MECHANICAL PARTS		
1	Not Available	37E Wide LCD Panel Unit Assy
1-1	CANGKA519WJ01	Center Angle Assy
1-1-1	Not Available	Center Angle
1-1-2	PSHEZA037WJZZ	Spacer, x2
1-1-3	PSHEZA038WJZZ	Spacer, x2
1-2	CCHSMA218WJ01	Chassis Assy
1-2-1	Not Available	B/L Chassis
1-2-2	LANGKA522WJFW	Fixing Metal Bottom
1-2-3	LANGKA526WJFW	Lamp Angle Top R, x2
1-2-4	LANGKA527WJFW	Lamp Angle Top L, x2
1-2-5	LHLDZA617WJKZ	Lamp Clip, x10
1-2-6	LHLDZA620WJKZ	Clip, x20
1-2-7	PGUMMA008WJKA	Lamp Rubber, x20
1-2-8	PMIR-A087WJZZ	Mirror
1-2-9	PRDARA248WJFW	Radiator
1-2-10	TCAUZA031WJZZ	Caution Label
1-2-11	XBPS730P06WS0	Screw, x13
1-3	KLMP-A071WJZZ	Lamp, x10
1-4	LANGKA545WJFW	Cabinet Fixing Metal, x2
1-5	LHLDZA614WJKZ	Lamp Holder, x2
1-6	LX-BZA051WJFN	Screw, x4
1-7	PCOVUA060WJZZ	Diffusion Panel
1-8	PSHEPA327WJZZ	Diffusion Sheet
1-9	PSHEPA342WJZZ	Prism Sheet
1-10	PSHEPA343WJZZ	Reflection/Deflection Sheet
1-11	PSPAZA693WJKZ	Spacer IC4101 COOL
1-12	QCNW-D529WJQZ	Connecting Cord (BL)
1-13	QCNW-D530WJQZ	Connecting Cord (PL)
1-14	QCNW-D533WJQZ	Connecting Cord (GV)
1-15	QCNW-D632WJQZ	Connecting Cord (BA)
1-16	QPWBMD498WJPZ	Panel FPC, x2
1-17	RLCDDTA072WJZZ	37E Wide LCD Panel Unit
1-18	RUNTKA147WJZZ	InverterA Unit
1-19	RUNTKA148WJZZ	InverterB Unit
1-20	RUNTKA149WJZZ	InverterA GND Unit
1-21	RUNTKA150WJZZ	InverterB GND Unit
1-22	XBPS730P06WS0	Screw, x32
1-23	XBPS730P08WS0	Screw, x6
1-24	XBPSN30P10000	Screw, x13
2	DUNTKD025VJ05	LCD Control Unit
3	DUNTKD165VJ06	Micro Processor Unit

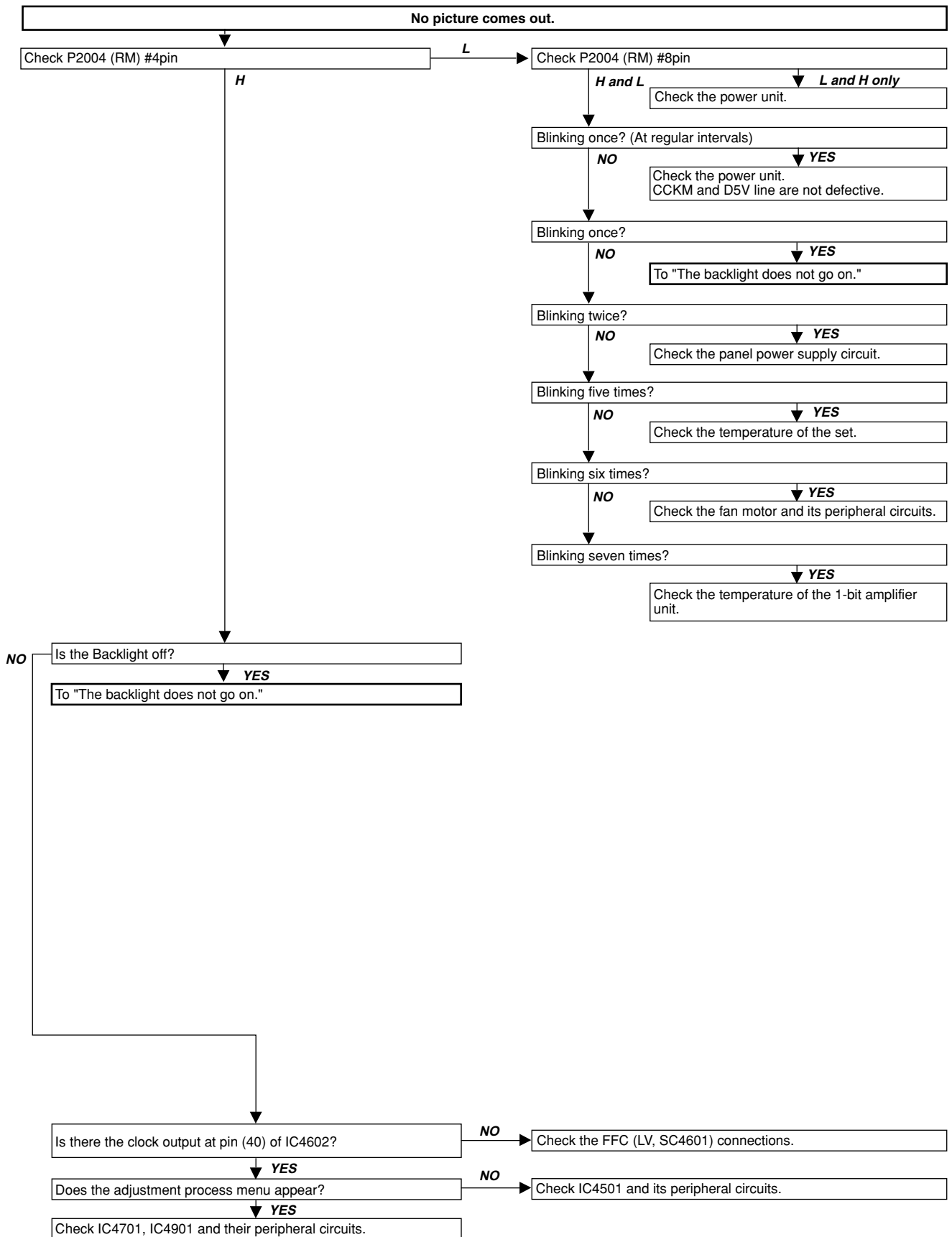
CABINET AND MECHANICAL PARTS



PARTS LIST

REF NO.	PART NUMBER	DESCRIPTION
1	<i>Not Available</i>	37" Wide LCD Panel Unit Ass'y
1-1	CANGKA519WJ01	Center Angle Ass'y
1-1-1	<i>Not Available</i>	Center Angle
1-1-2	PSHEZA037WJZZ	Spacer, x2
1-1-3	PSHEZA038WJZZ	Spacer, x2
1-2	CCHSMA218WJ01	Chassis Ass'y
1-2-1	<i>Not Available</i>	B/L Chassis
1-2-2	LANGKA522WJFW	Fixing Metal Bottom
1-2-3	LANGKA526WJFW	Lamp Angle Top R, x2
1-2-4	LANGKA527WJFW	Lamp Angle Top L, x2
1-2-5	LHLDZA617WJKZ	Lamp Clip, x10
1-2-6	LHLDZA620WJKZ	Clip, x20
1-2-7	PGUMMA008WJKA	Lamp Rubber, x20
1-2-8	PMIR-A087WJZZ	Mirror
1-2-9	PRDARA248WJFW	Radiator
1-2-10	TCAUZA031WJZZ	Caution Label
1-2-11	XBPS730P06WS0	Screw, x13
1-3	KLMP-A071WJZZ	Lamp, x10
1-4	LANGKA545WJFW	Cabinet Fixing Metal, x2
1-5	LHLDZA614WJKZ	Lamp Holder, x2
1-6	LX-BZA051WJFN	Screw, x4
1-7	PCOVUA060WJZZ	Diffusion Panel
1-8	PSHEPA327WJZZ	Diffusion Sheet
1-9	PSHEPA342WJZZ	Prism Sheet
1-10	PSHEPA343WJZZ	Reflection/Deflection Sheet
1-11	PSPAZA693WJKZ	IC4101 Cool
1-12	QCNW-D529WJQZ	Connecting Cord (BL)
1-13	QCNW-D530WJQZ	Connecting Cord (PL)
1-14	QCNW-D533WJQZ	Connecting Cord (GV)
1-15	QCNW-D632WJQZ	Connecting Cord (BA)
1-16	QPWBMD498WJPZ	Panel FPC(80PIN), x2
1-17	RLCDDTA072WJZZ	37" Wide LCD Panel Unit
1-18	RUNTKA147WJZZ	INVERTER-1 Unit
1-19	RUNTKA148WJZZ	INVERTER-2 Unit
1-20	RUNTKA149WJZZ	INVERTER-1 GND Unit
1-21	RUNTKA150WJZZ	INVERTER-2 GND Unit
1-22	XBPS730P06WS0	Screw, x32
1-23	XBPS730P08WS0	Screw, x6
1-24	XBPSN30P10000	Screw, x13
2	DUNTKD025VJ05	LCD CONTROL Unit
3	DUNTKD165VJ06	MICRO PROCESSOR Unit

TROUBLE SHOOTING TABLE



TROUBLE SHOOTING TABLE (Continued)

LED flashing patterns for error notification

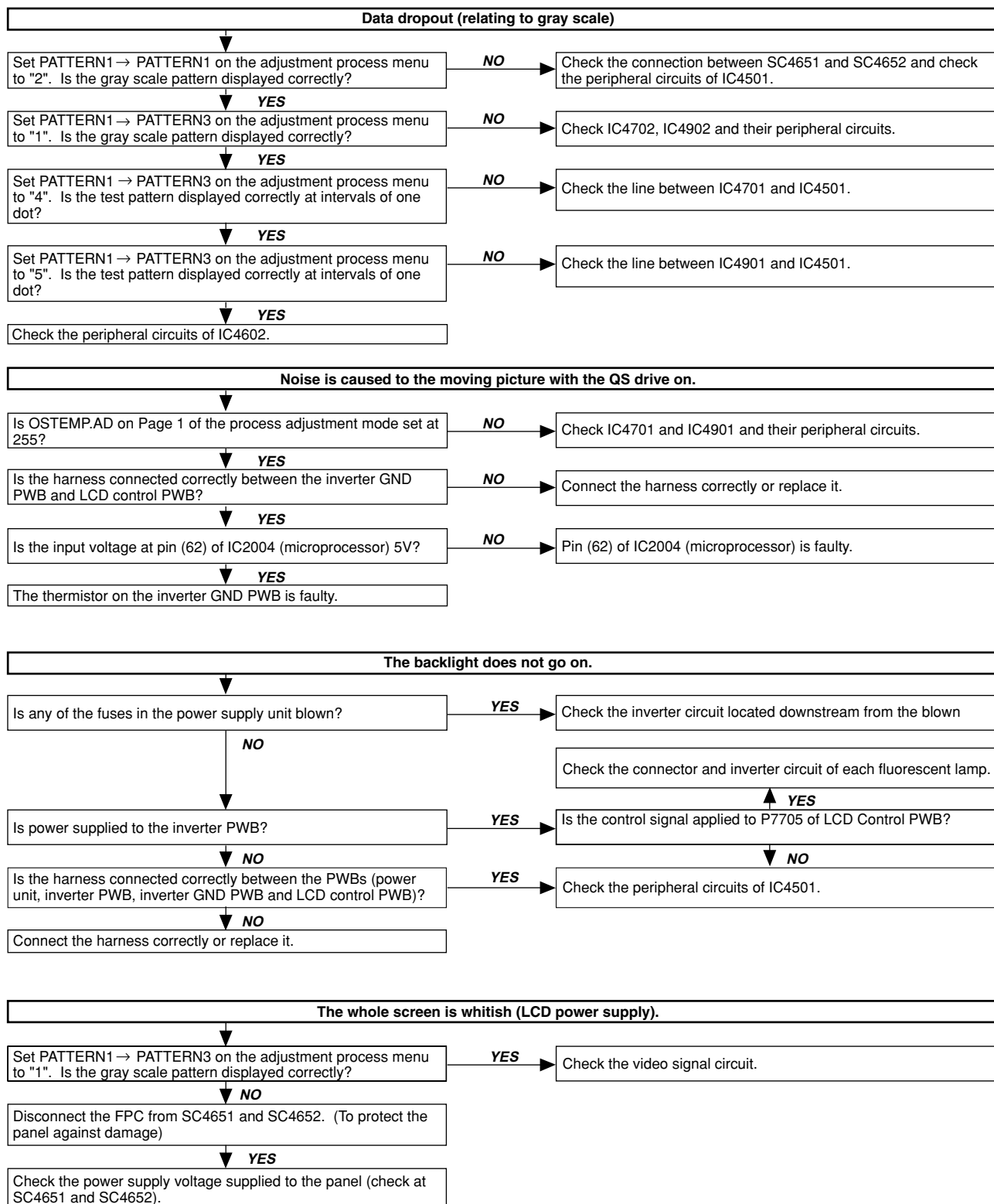


1) Red power LED		Remarks
Error type	Red power LED operation (one cycle)	
Lamp failure	Ht: On L: Off	"Pin" means a monitoring microcomputer pin. L_FL_ERR (pin 73) is defect (L). 5 sequential flashes at 1 second intervals indicate a lamp failure (failure can be detected only while the backlight is on). Be aware that the lamp failure detecting operation is not activated except in the monitoring process after the LED has flashed 5 times in total. The total number of flashes is cleared to 0 by the setting in the monitoring process or after the LED lit up for 30 minutes in a row.
Power failure	Ht: On L: Off	2) Refer to "Details of power failure".
Communication failure between main CPUs	Ht: On L: Off	3) Refer to "Details of communication failure". Communication line failure or main CPU communication failure → Check debug statements for the main CPU.
Monitor temp. failure	Ht: On L: Off	If the panel temperature is 60°C or more for 15 seconds or more in a row, CAUTION appears on the OSD of AVC (flashes in red in the lower right screen). If the panel temperature is 60°C or more for 25 seconds or more in a row, the error standby is activated.
5 flashes	Ht: On L: Off	(OSTEMP in monitoring process OTHER 2: thermistor AD value appears, TEMP_ERR in page FAN: temperature failure AD value is changed); thermistor
2) Details of power failure		Remarks
Error type	Alarm LED operation (one cycle)	
15 V failure	Ht: On L: Off	"Pin" means a monitoring microcomputer pin, unless otherwise noted. 15V_CHK (pin 31) is defect (L). 15 V is not applied.
1 flash	Ht: On L: Off	Detected only during start-up. When the error is detected during operation, the projector is restarted by an interrupt handling (instantaneous blackout processing).
2 flashes	Ht: On L: Off	Not used
9 V (A) failure	Ht: On L: Off	CSEN1 (pin 34) is defect (L).
3 flashes	Ht: On L: Off	Detected during start-up and operation (interruption)
VSH 3.3 V failure	Ht: On L: Off	VSH_IN (pin 36pin) is defect (H). VSH 3.3 V is not applied.
4 flashes	Ht: On L: Off	Detected during start-up and operation (interruption)
LCD controller PWB	Ht: On L: Off	FREEERUN (pin 59) or STB (pin 32) is defect (L). 3.3 V is not applied to the LCD controller.
3.3 V failure	Ht: On L: Off	Detected during start-up and operation (interruption). FREEERUN is checked during start-up and STB is checked while light is on.
5 flashes	Ht: On L: Off	Not used
6 flashes	Ht: On L: Off	
3) Details of communication failure		Remarks
Error type	Alarm LED operation (one cycle)	
Initial communication reception failure	Ht: On L: Off	Basically, communication logs are analyzed by a bus monitor or debug print logs are analyzed. Initial communication from the main CPU is not received. (Request for the monitor model No. is not received.) → Communication line failure or main CPU start-up failure
1 flash	Ht: On L: Off	
Start-up reason reception failure	Ht: On L: Off	Reason for start-up is not received from the main CPU. (Start-up communication to start-up reason notification 22h is not received.) → Main CPU start-up failure or monitoring microcomputer's reception failure
2 flashes	Ht: On L: Off	
Regular communication failure	Ht: On L: Off	Regular communication that is performed at 1 second intervals in the normal operation is interrupted. → Main CPU operation failure or monitoring microcomputer's reception failure
3 flashes	Ht: On L: Off	
Restart failure	Ht: On L: Off	When the projector is restarted by program such as standby on/off, notice for the completion of restart is not received. → Main CPU restart failure or monitoring microcomputer's reception failure
4 flashes	Ht: On L: Off	

Power LED: P2304 (RM), pin 8

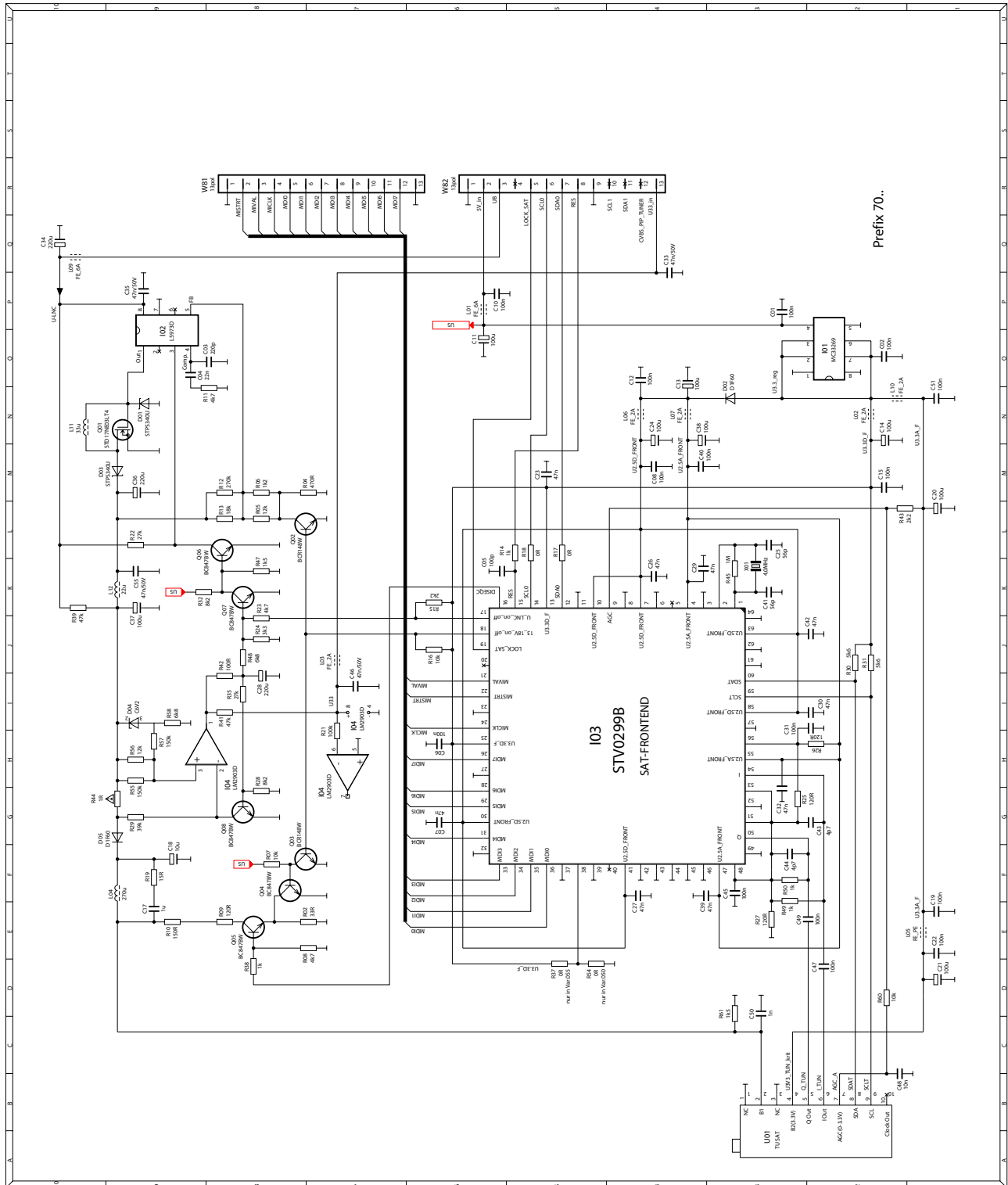
Alarm LED: TP2301 (IC2301, pin 22)

TROUBLE SHOOTING TABLE (Continued)

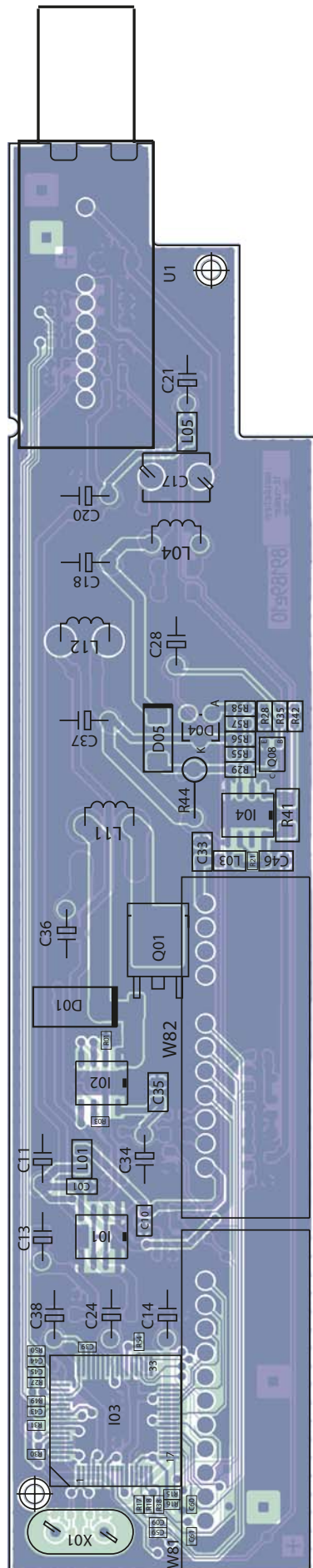


Appendix

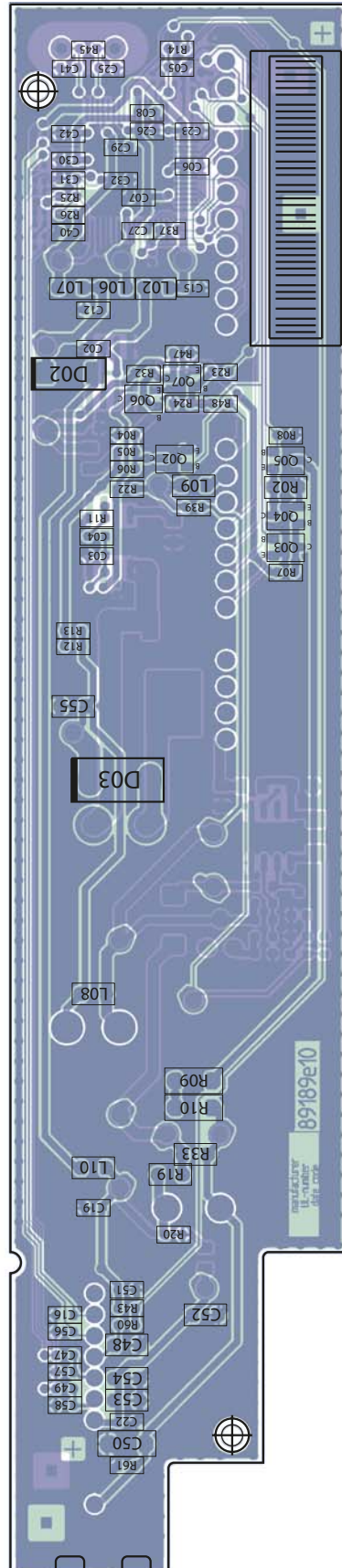
DVB-S Frontend L2650



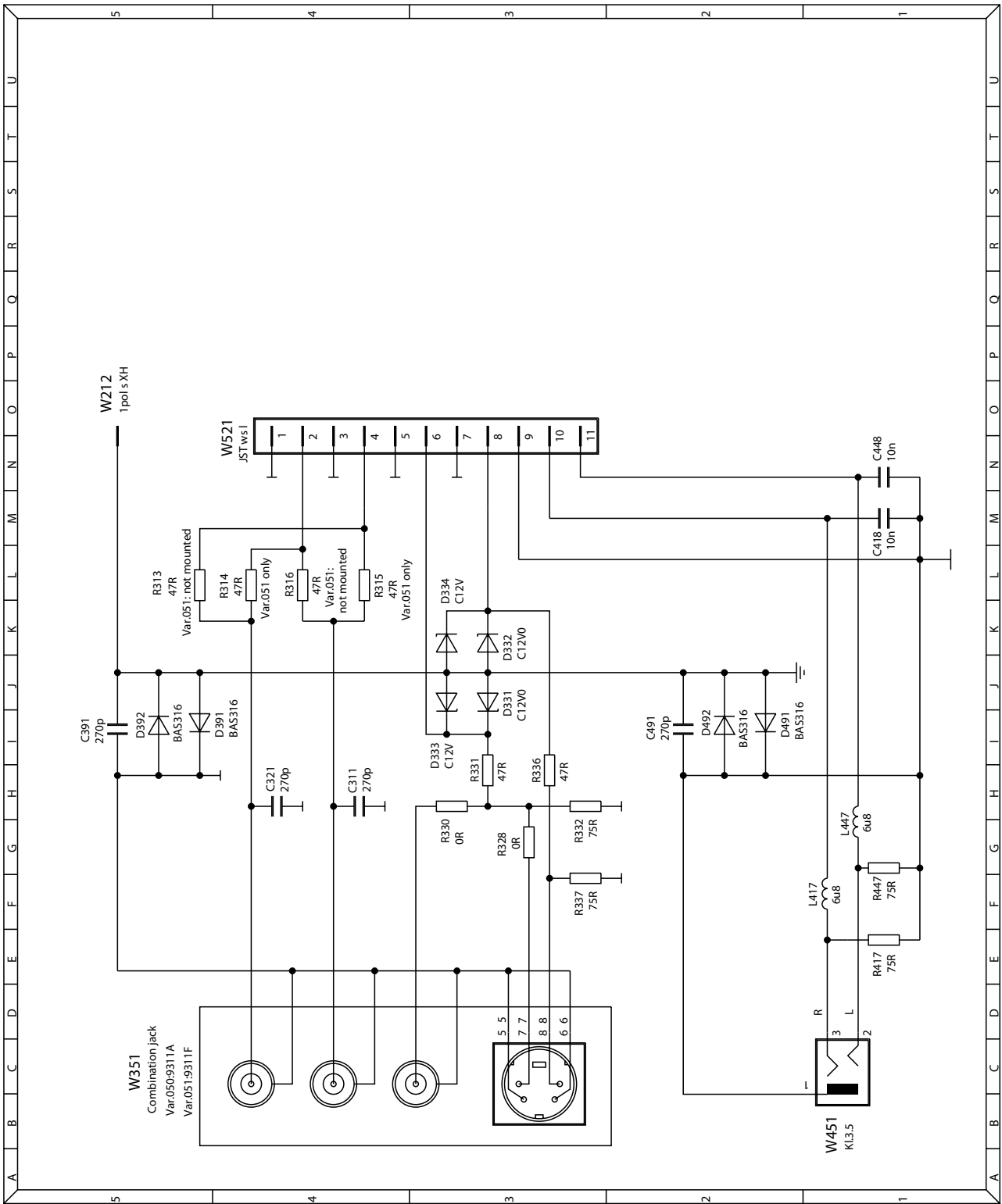
DVB-S Frontend - components side



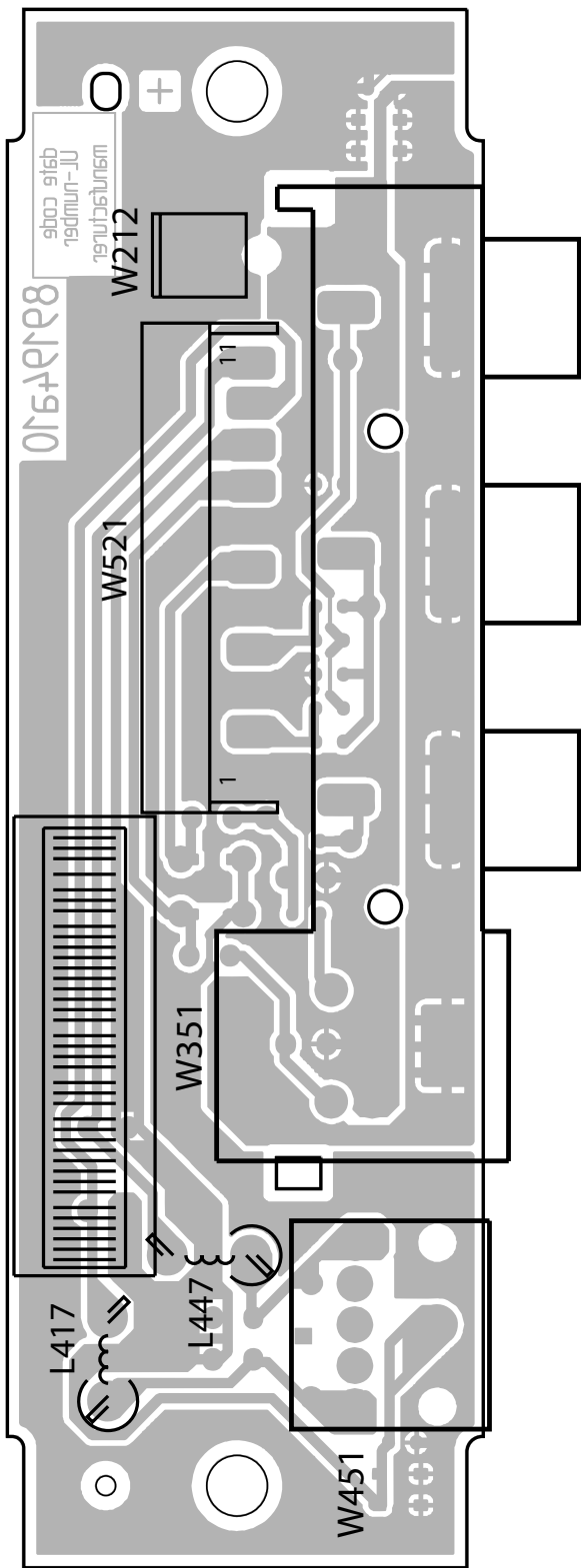
DVB-S Frontend - solder side



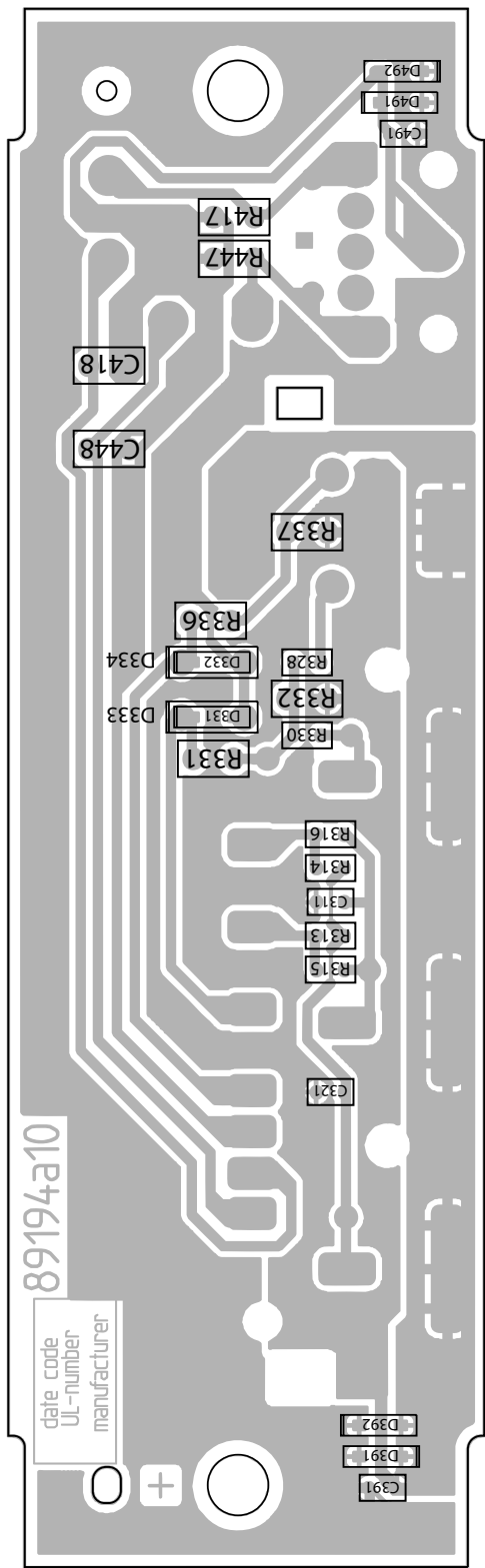
AV connector board L2650
 Var. 050/051

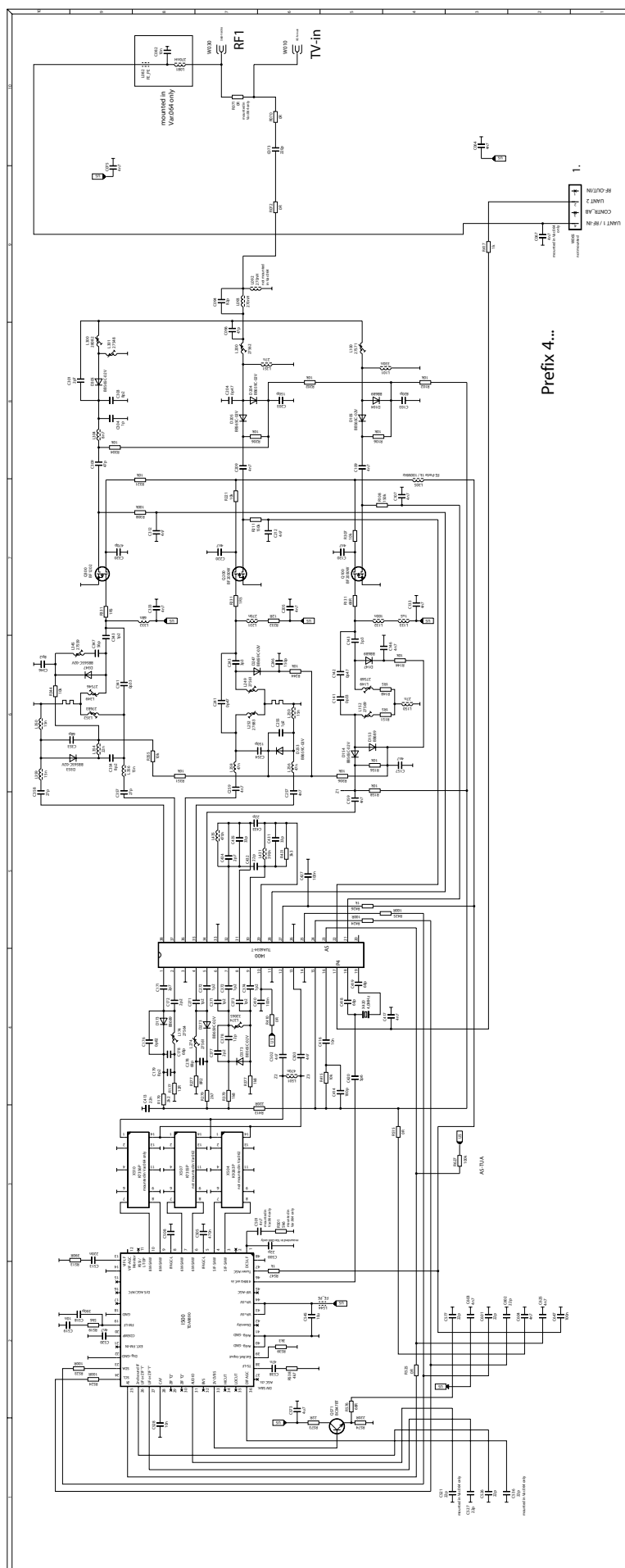


Connector board P.C.B 89194A - components side

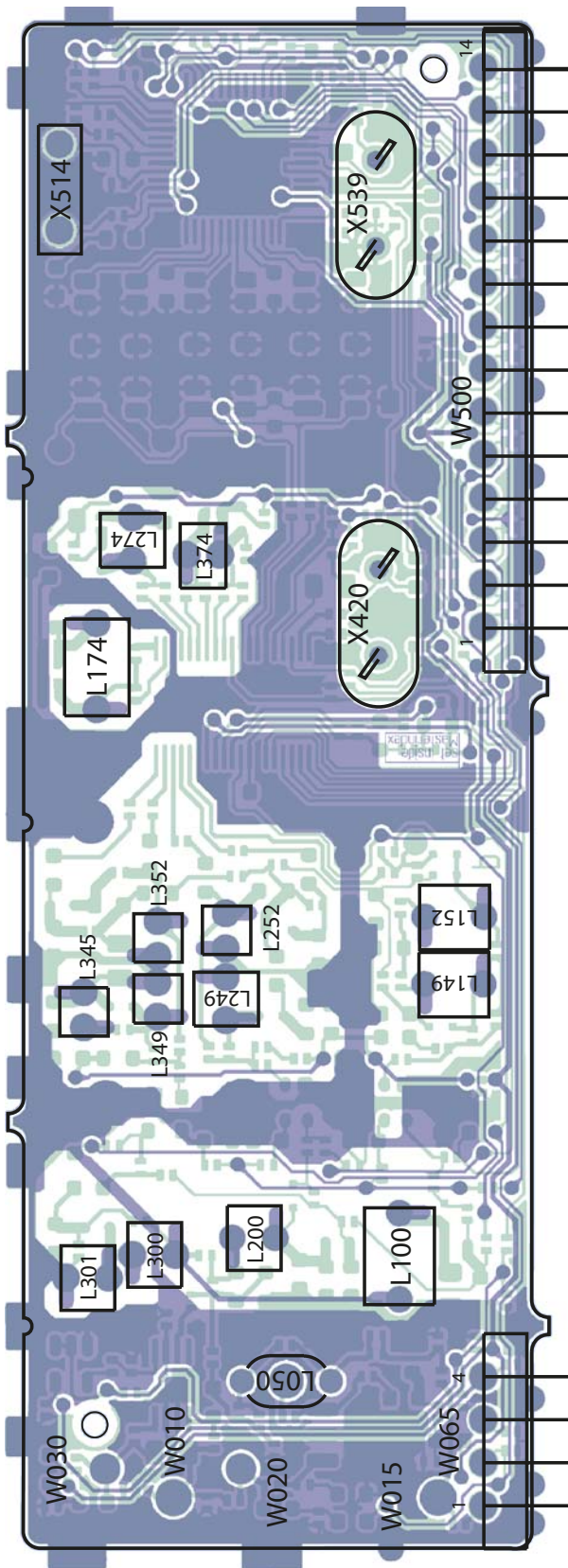


Connector board P.C.B 89194A - solder side

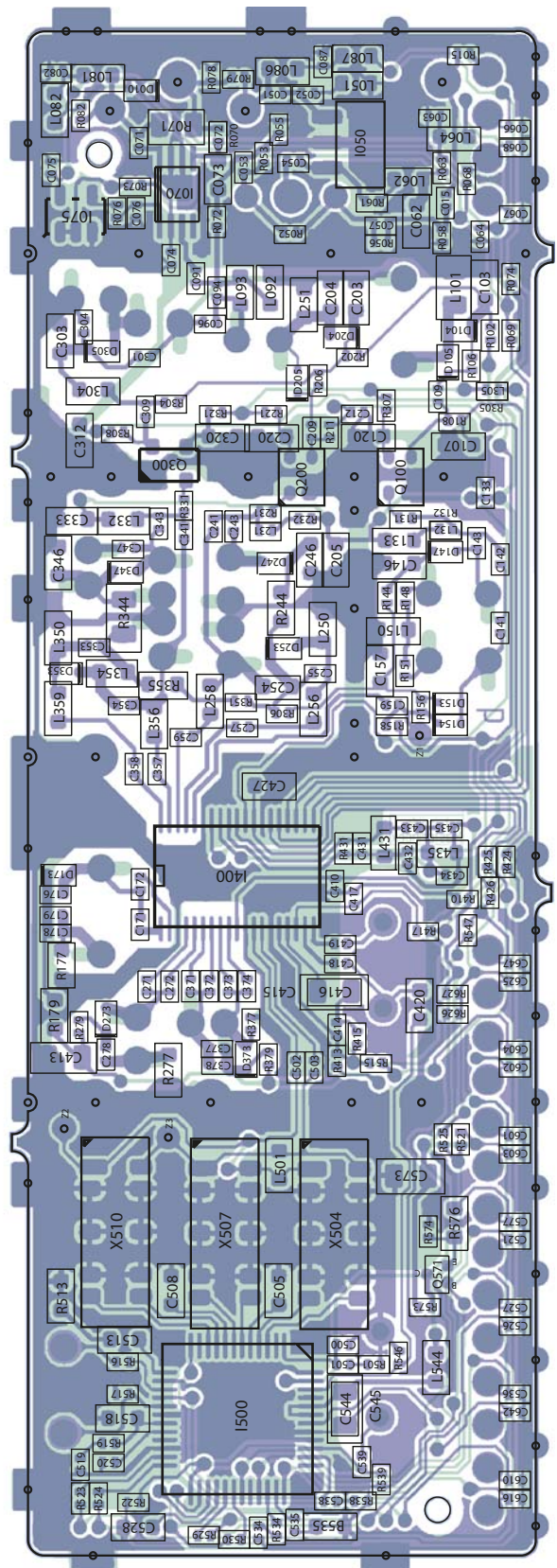


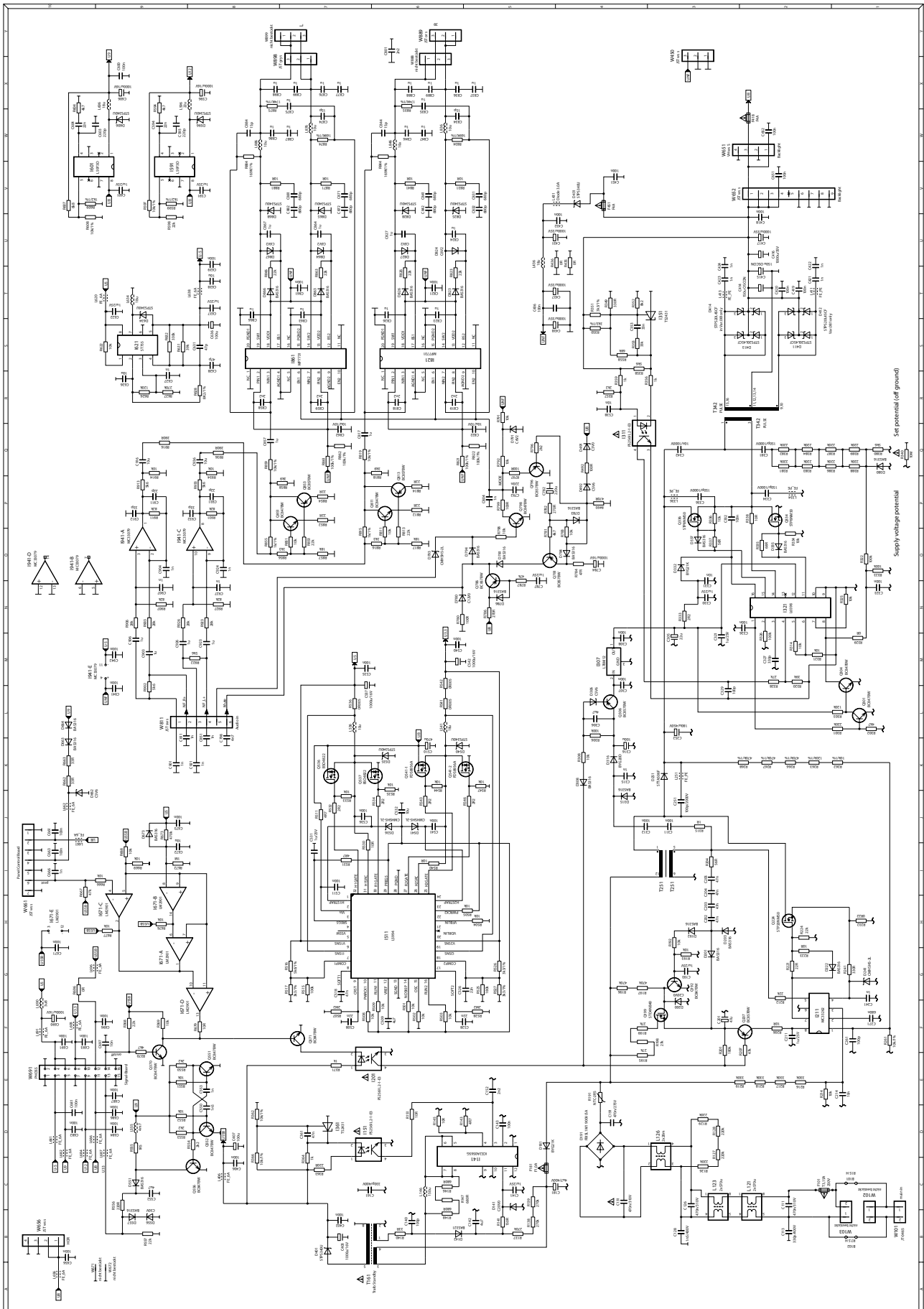


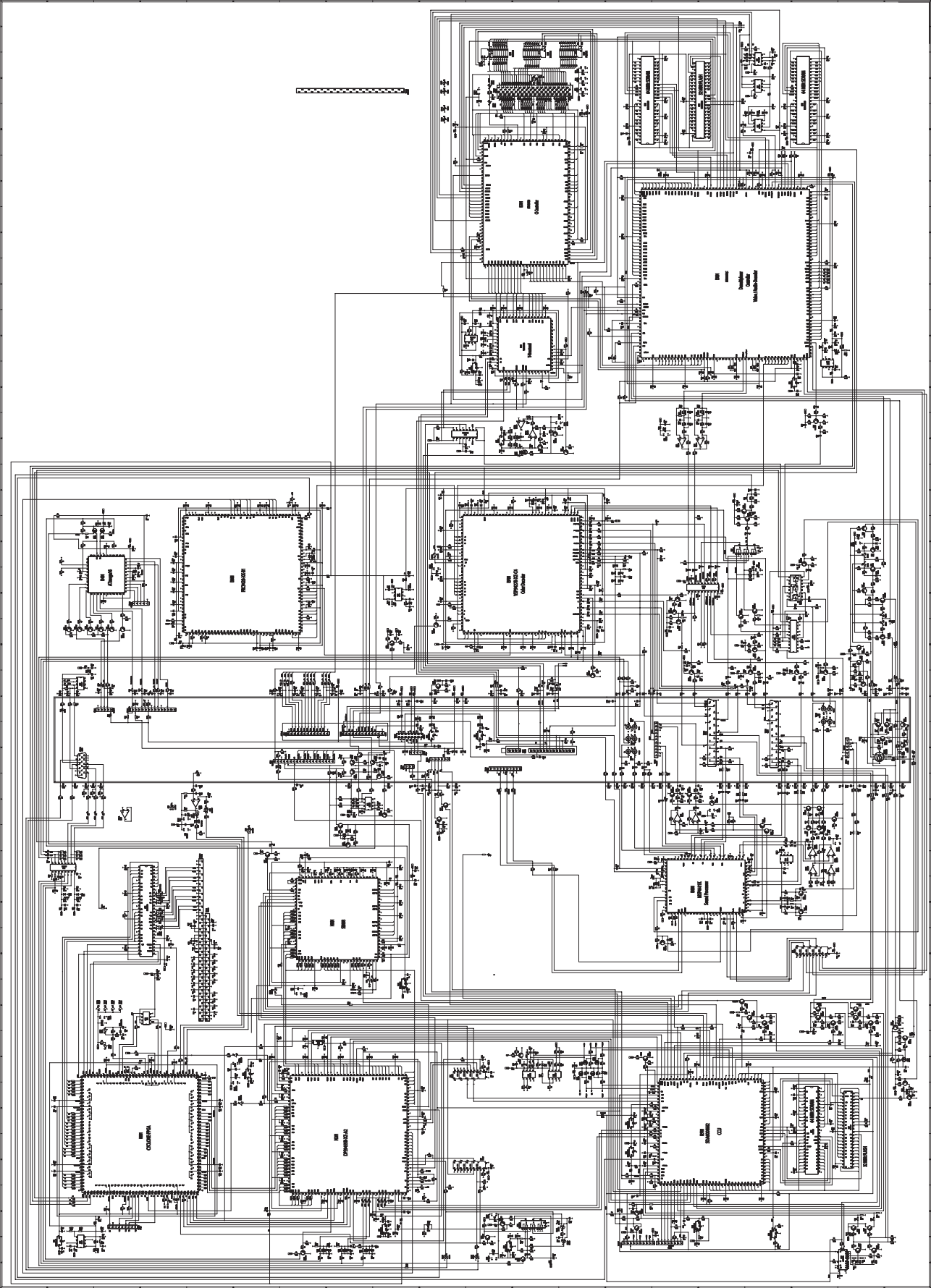
Tuner/IF P.C.B 89222D - components side



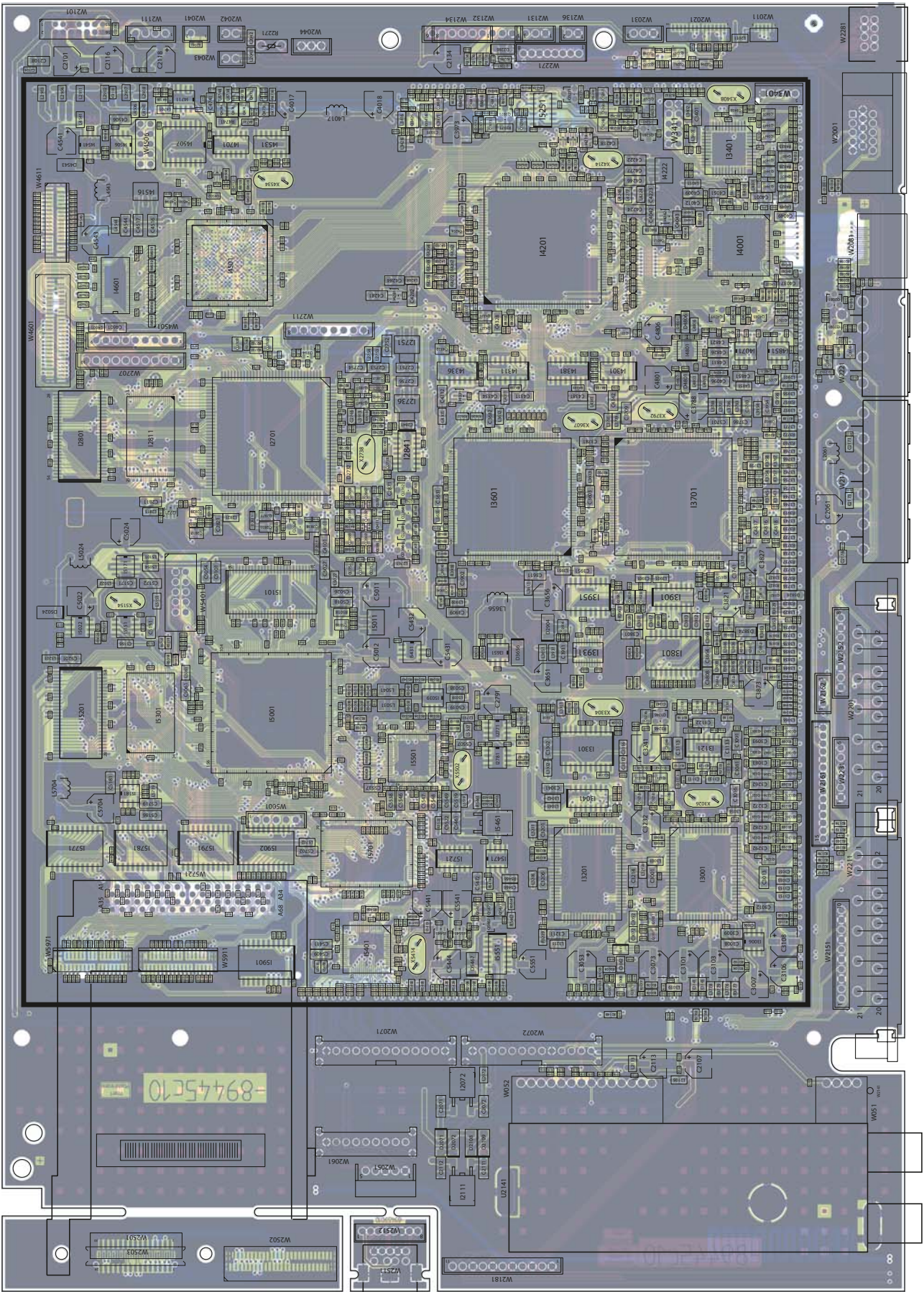
Tuner/IF P.C.B 89222D - solder side



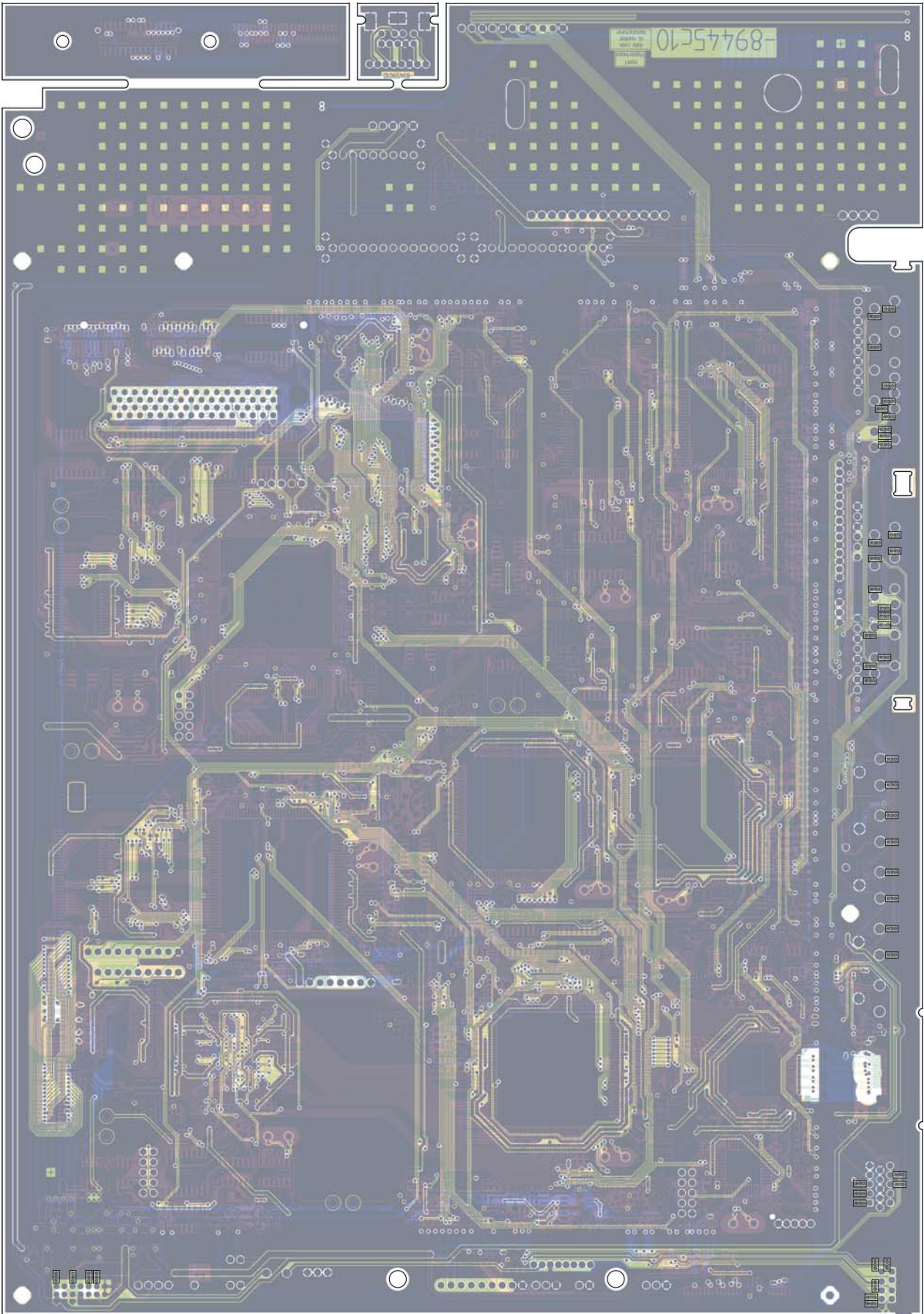


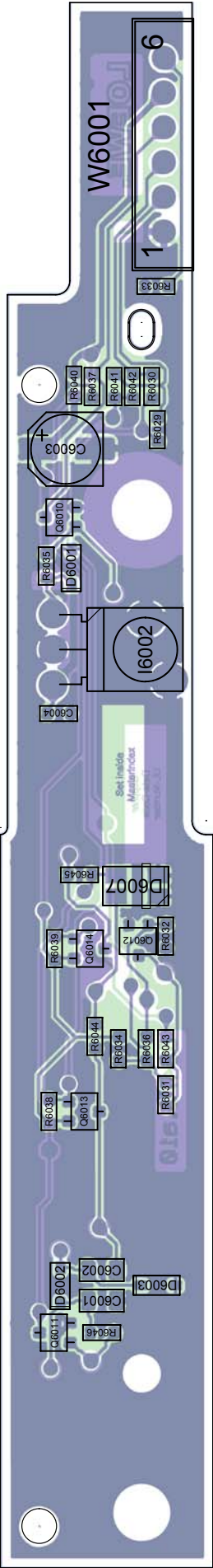


Signalboard - components side



Signalboard - solder side

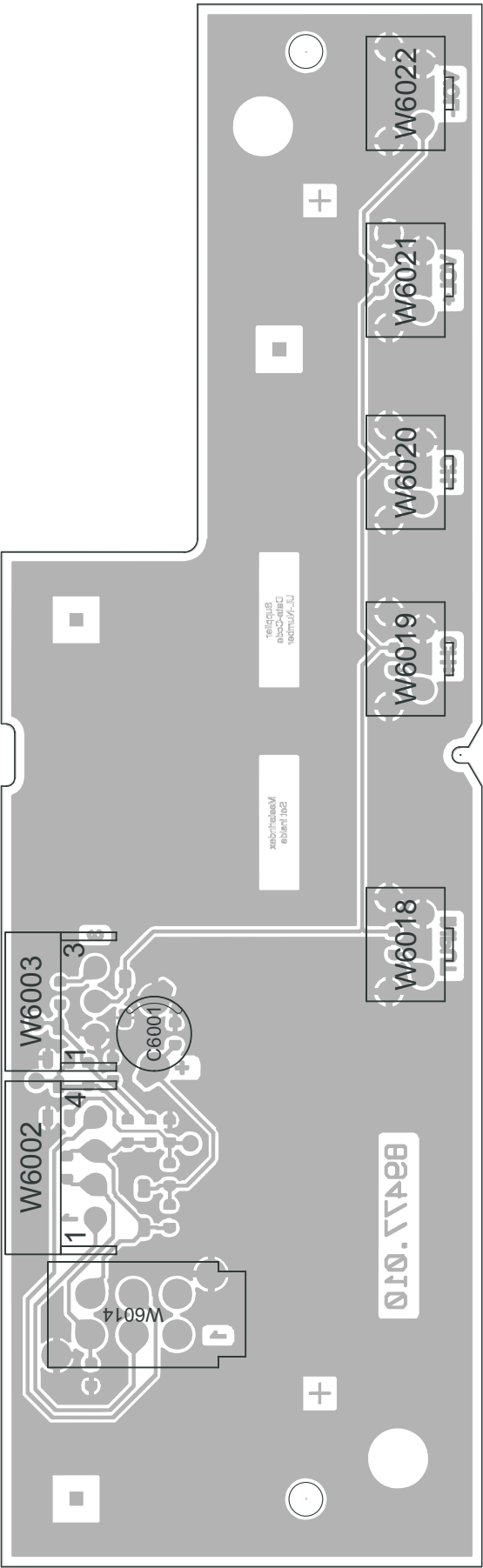




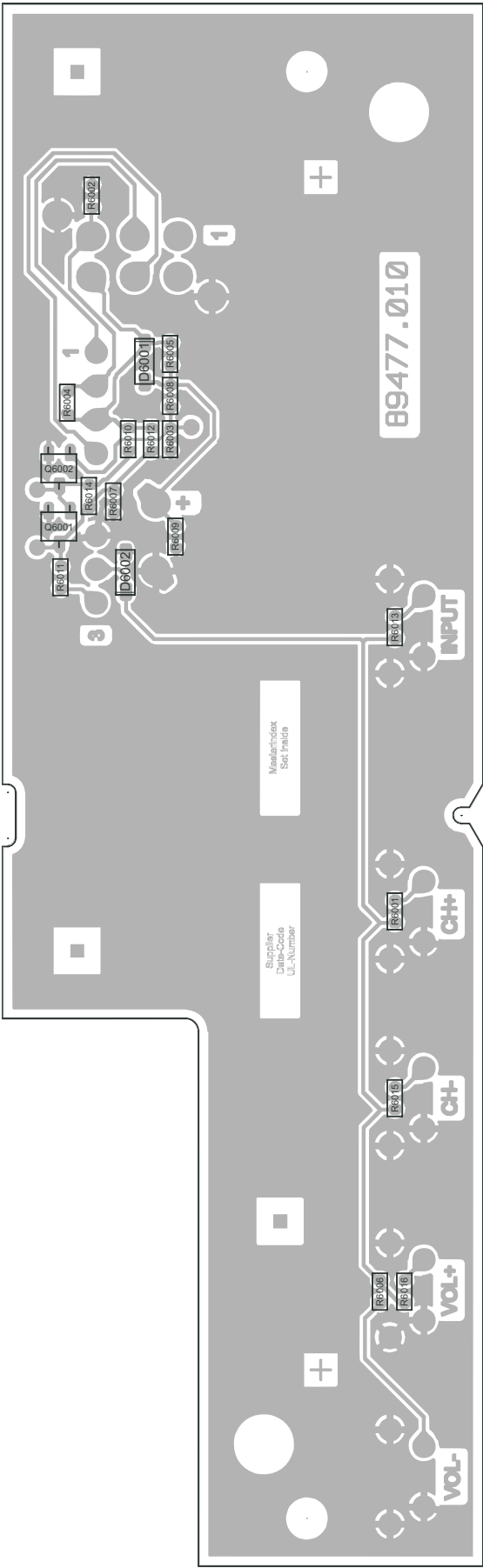
IR Receiver/LED Sharp GD7 89476A Components side

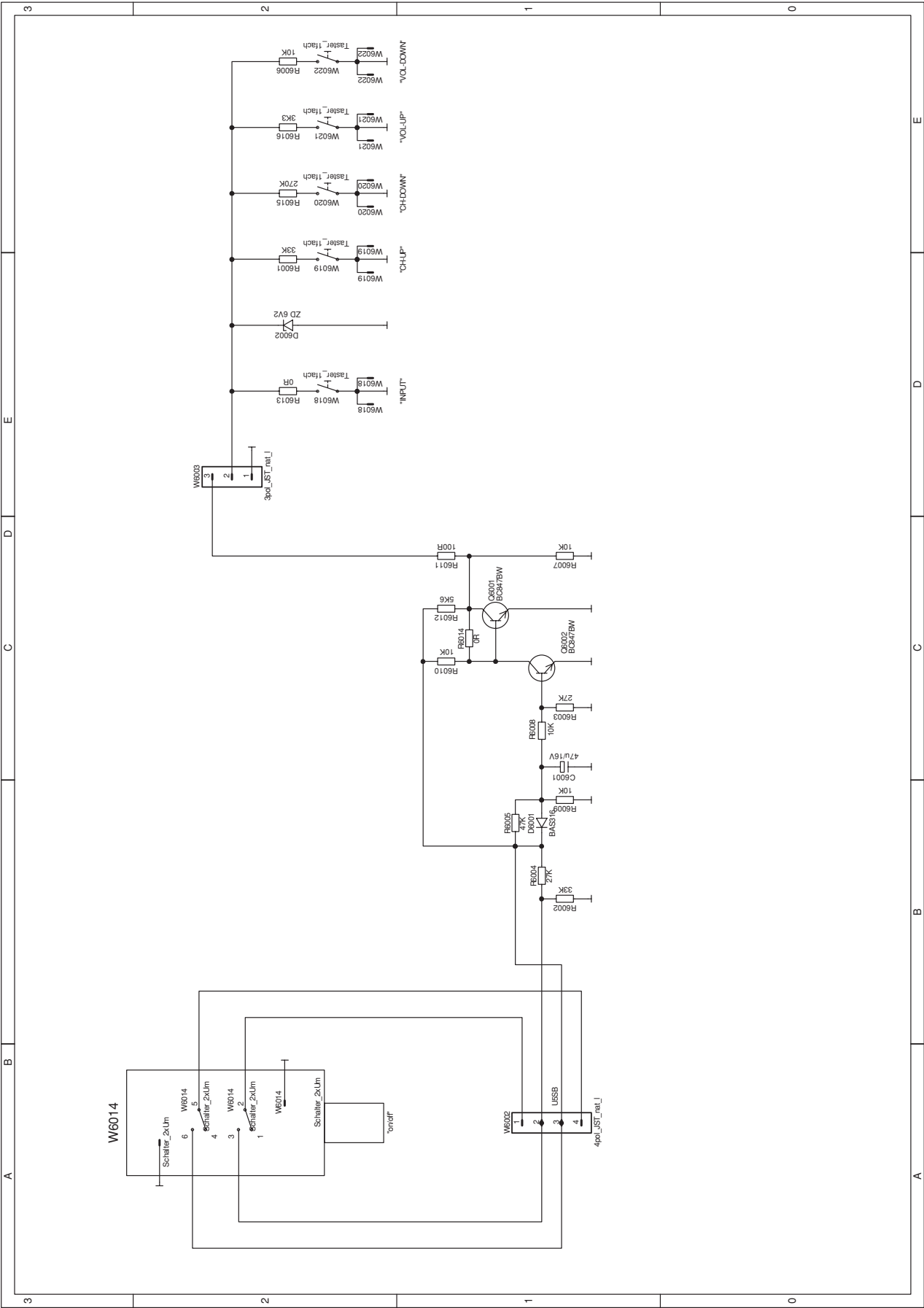
[illegible]

Components side

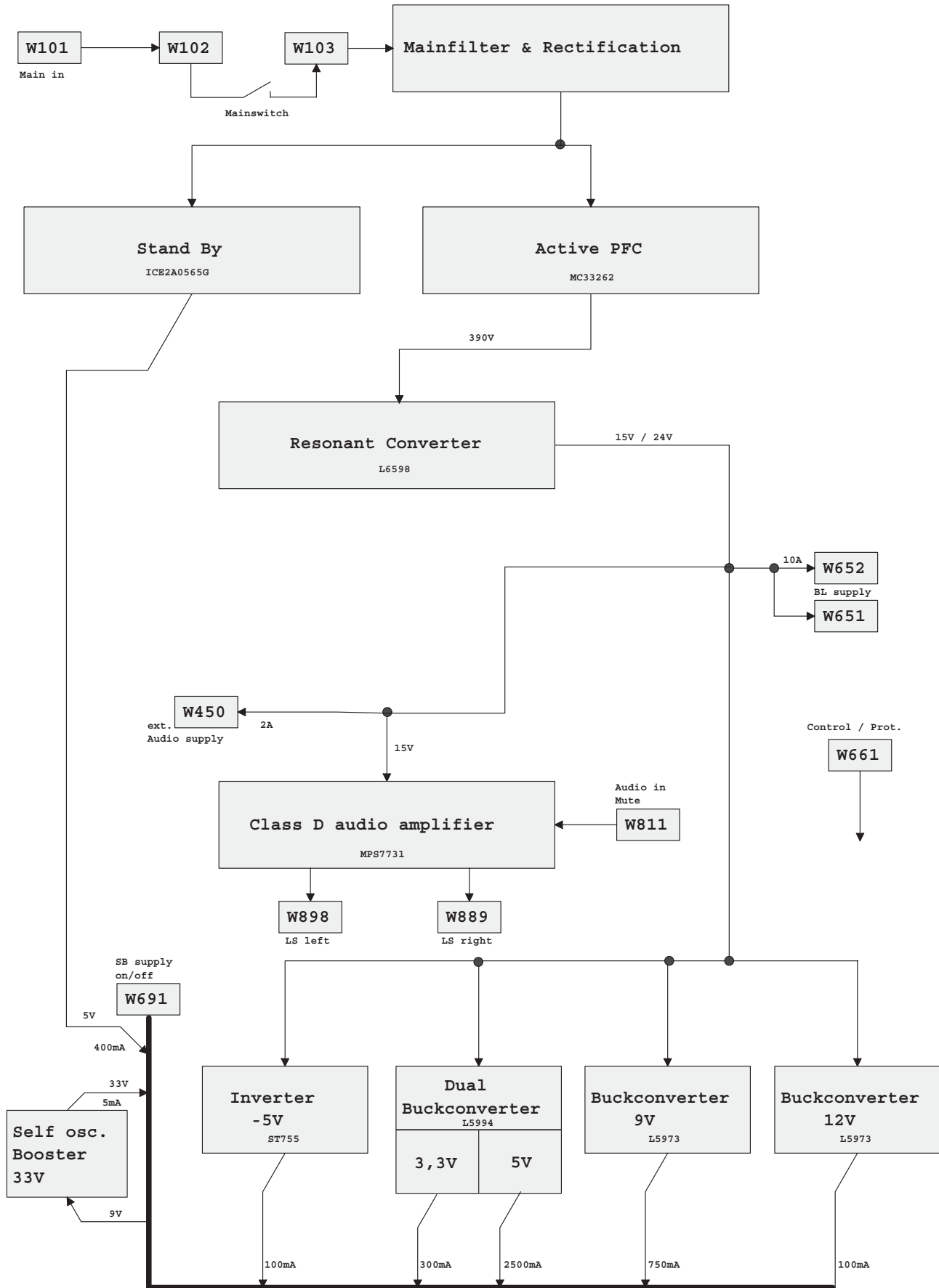


Solder side

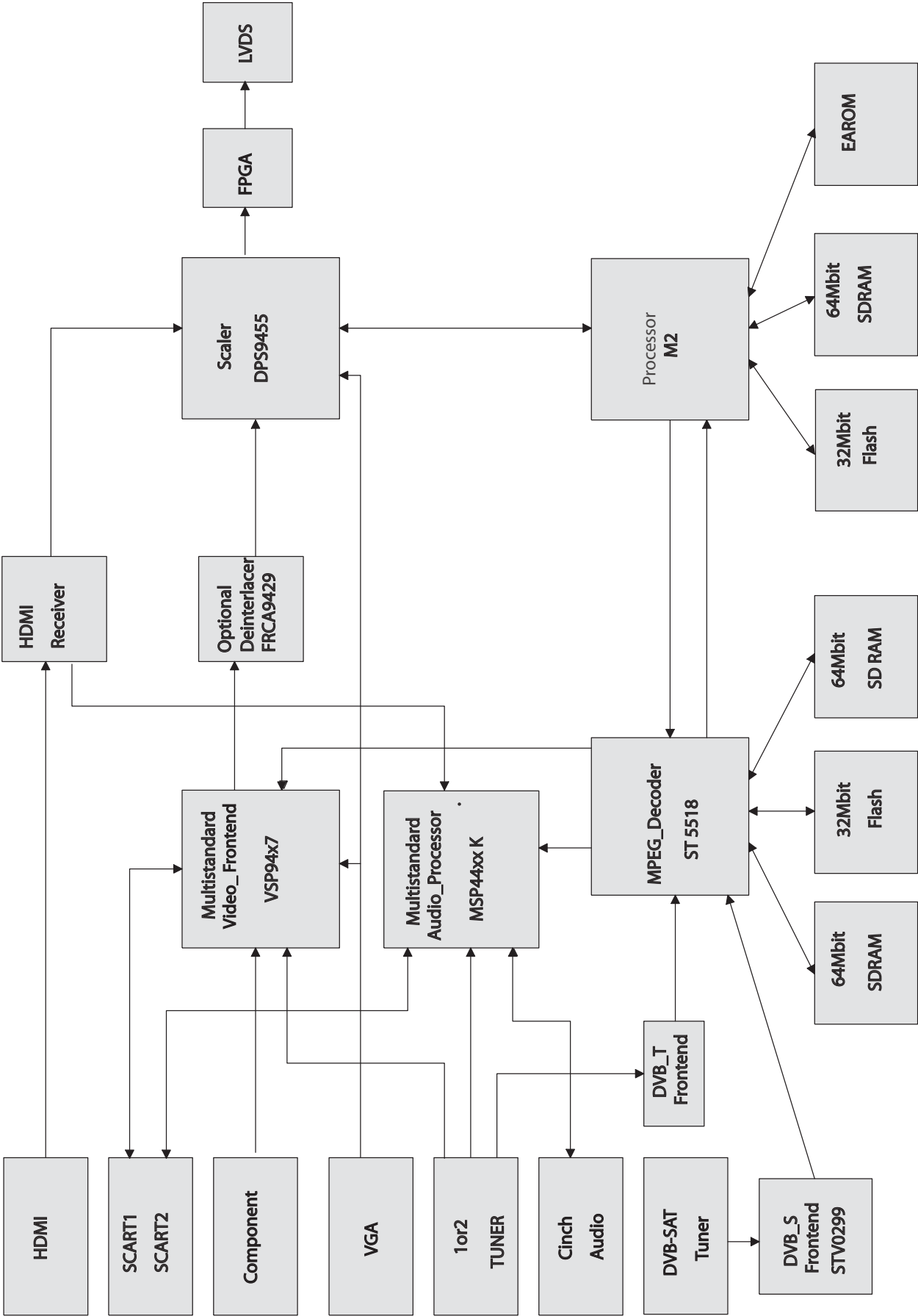




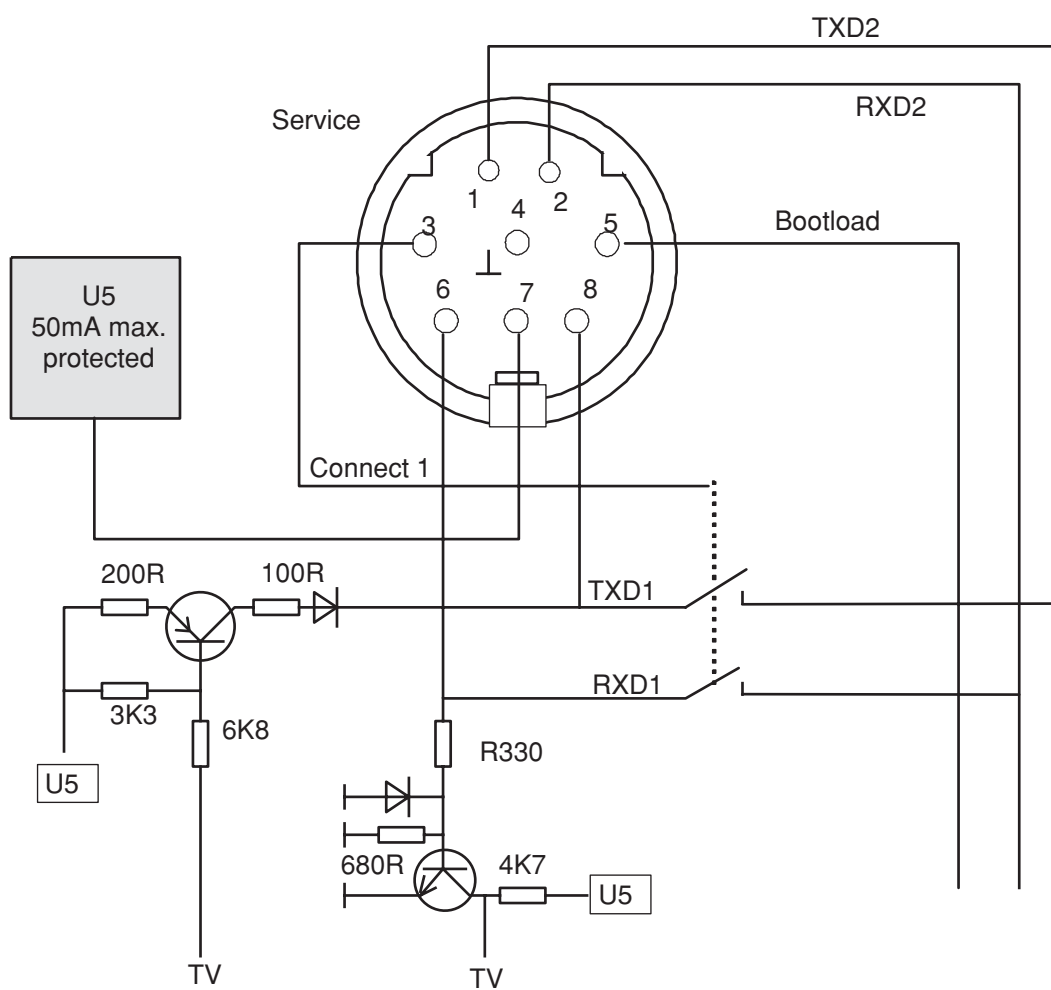
Block diagram basicboard

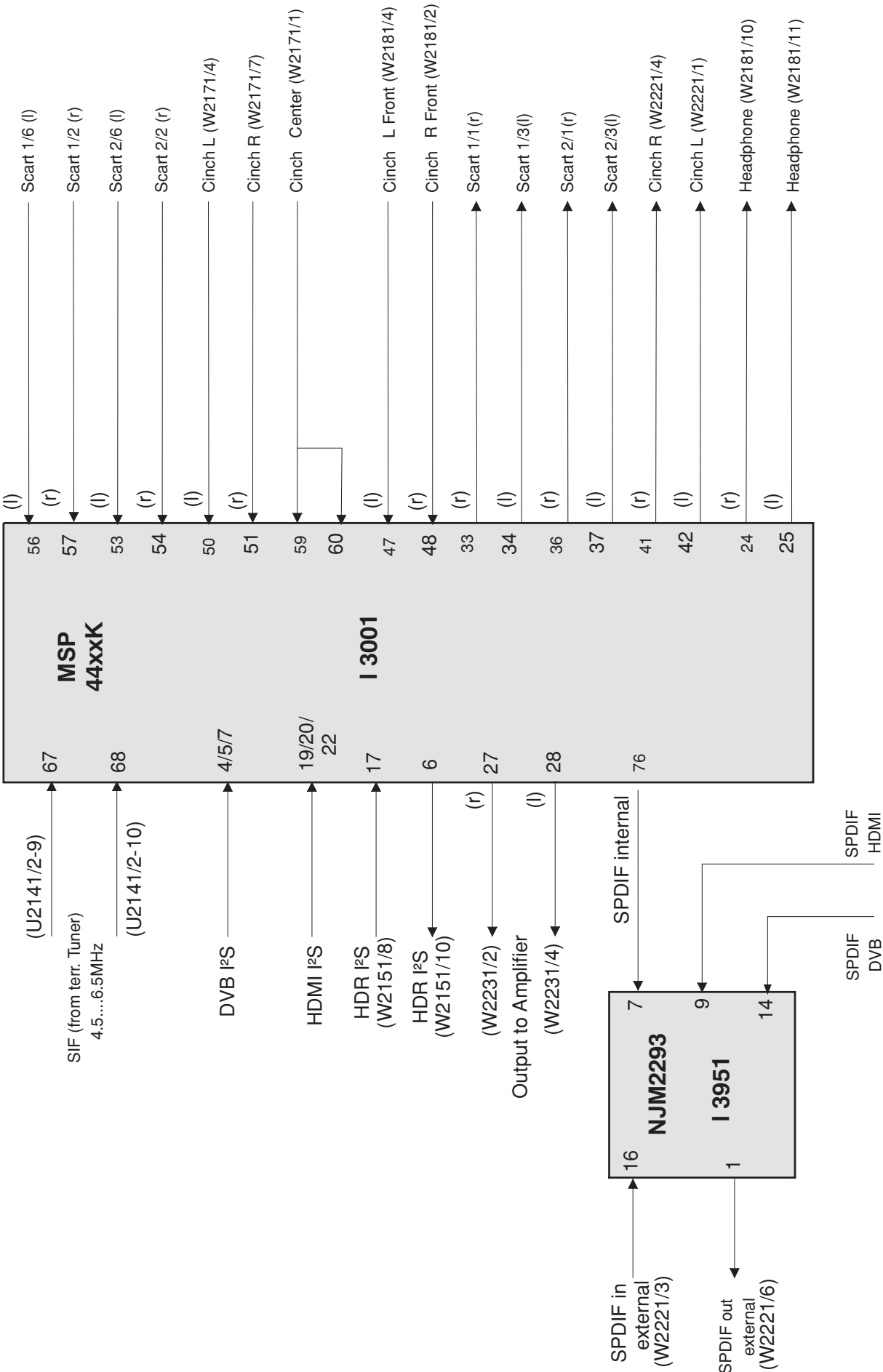


Block diagram signalboard

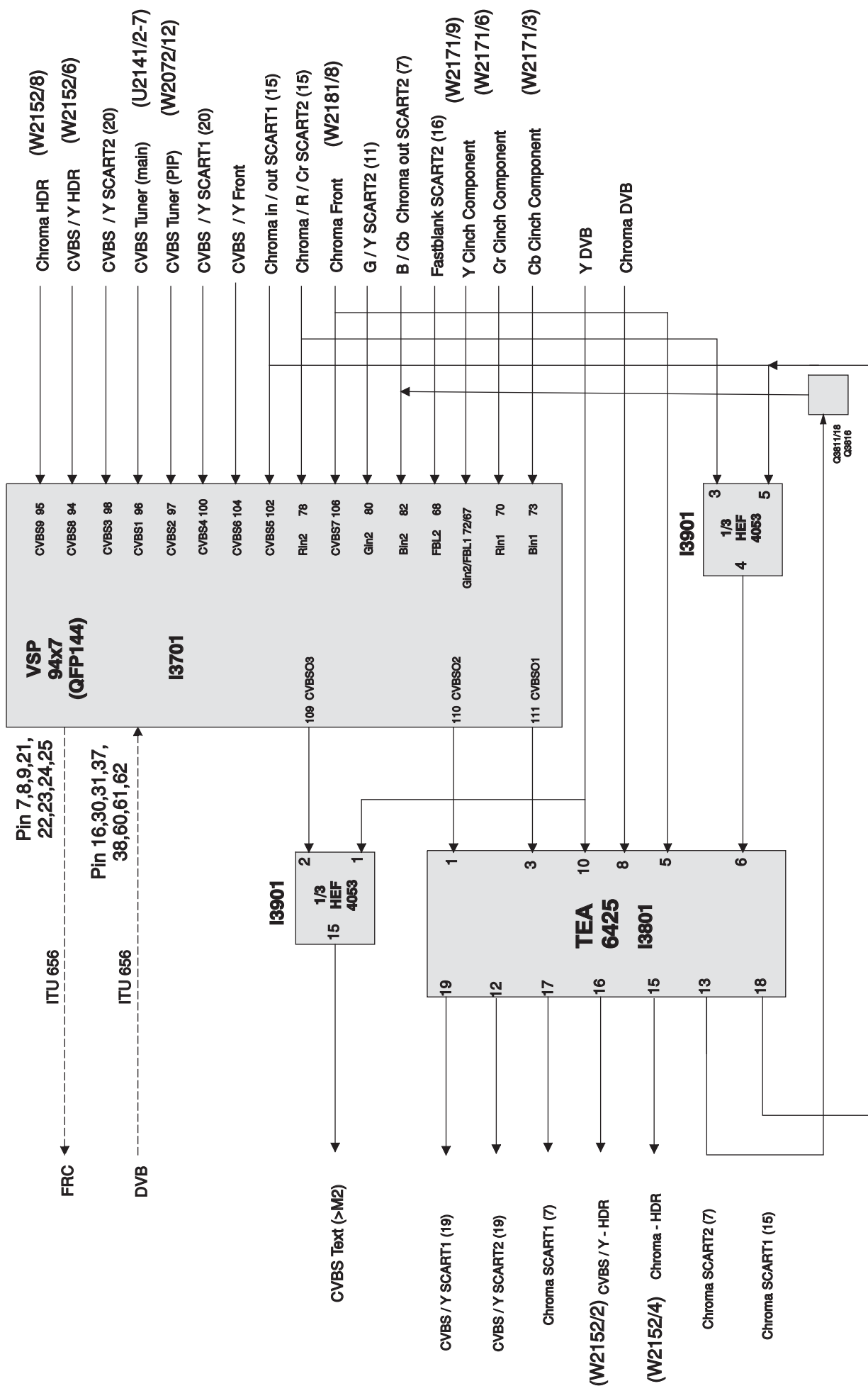


Service interface





Signal path video



DESCRIPTION OF SCHEMATIC DIAGRAM

VOLTAGE MEASUREMENT CONDITION:

1. When the exclusive-use AC adapter is used, the colour bar signal of colour bar generator for service is input to get the normal screen. When the audio is minimized, the voltage value is measured with the 20 k Ω /V tester.

WAVEFORM MEASUREMENT CONDITION:

1. When the exclusive-use AC adapter is used, the colour density, lightness and colour hue are set to the center position, and the signal of colour bar generator for service is observed to get waveform.

INDICATION OF RESISTOR & CAPACITOR:

RESISTOR

1. The unit of resistance " Ω " is omitted.
(K=k Ω =1000 , M=M Ω).
2. All resistors are $\pm 5\%$, unless otherwise noted.
(J= $\pm 5\%$, F= $\pm 1\%$, D= $\pm 0.5\%$)
3. All resistors are Carbon type, unless otherwise noted.
© : Solid Ⓢ : Cement
Ⓢ : Oxide Film Ⓣ : Special
Ⓝ : Metal Coating


CAPACITOR

1. All capacitors are mF, unless otherwise noted.
(P=pF=mmF).
2. All capacitors are Ceramic type, unless otherwise noted.
(ML) : Mylar (TA) : Tantalum
(PF) : Polypro Film (ST) : Styrol

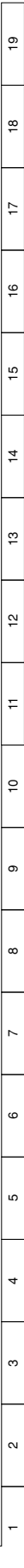
CAUTION:

This circuit diagram is original one, therefore there may be a slight difference from yours.

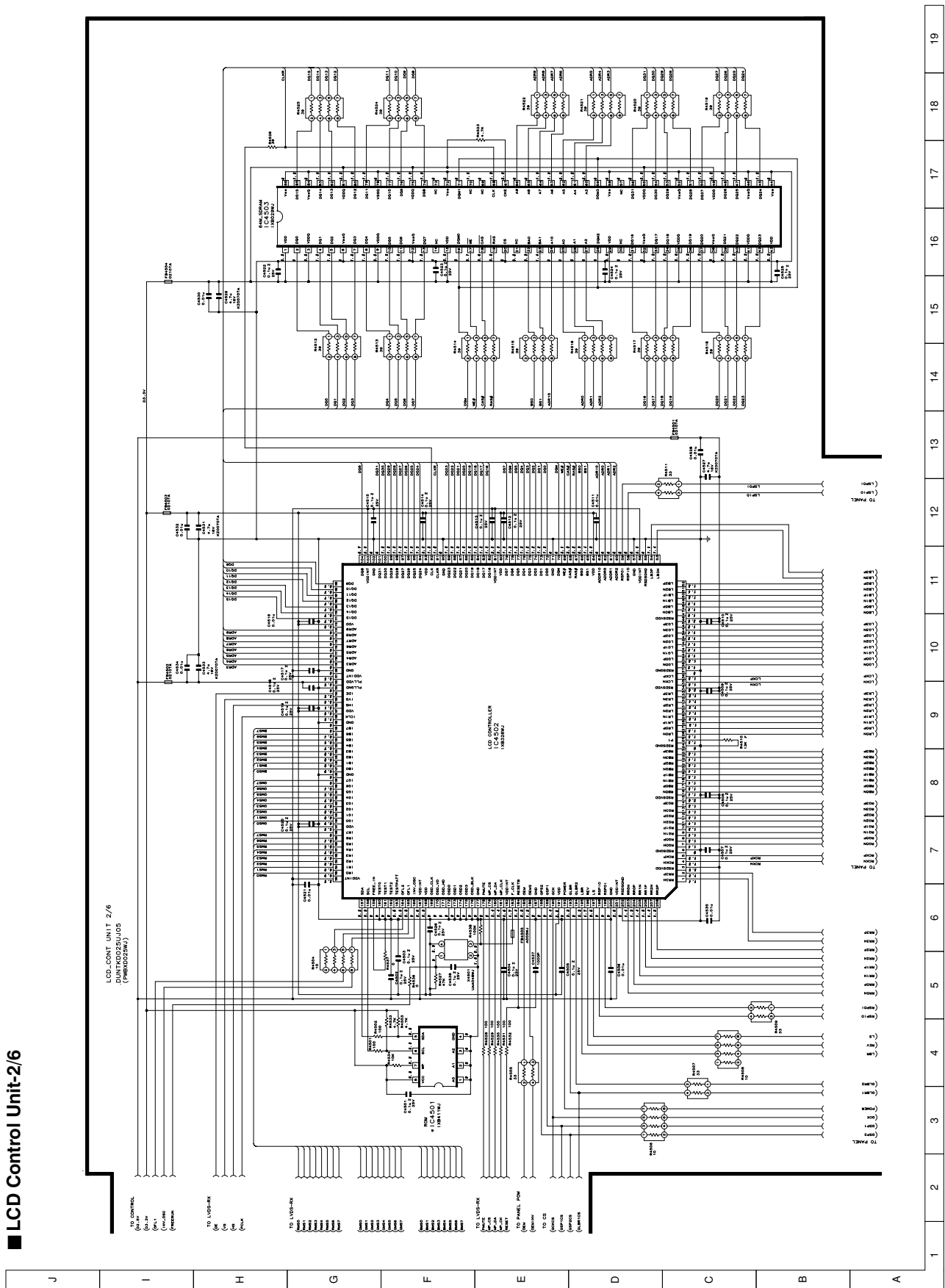
IMPORTANT SAFETY NOTICE:

PARTS MARKED WITH "⚠" () ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

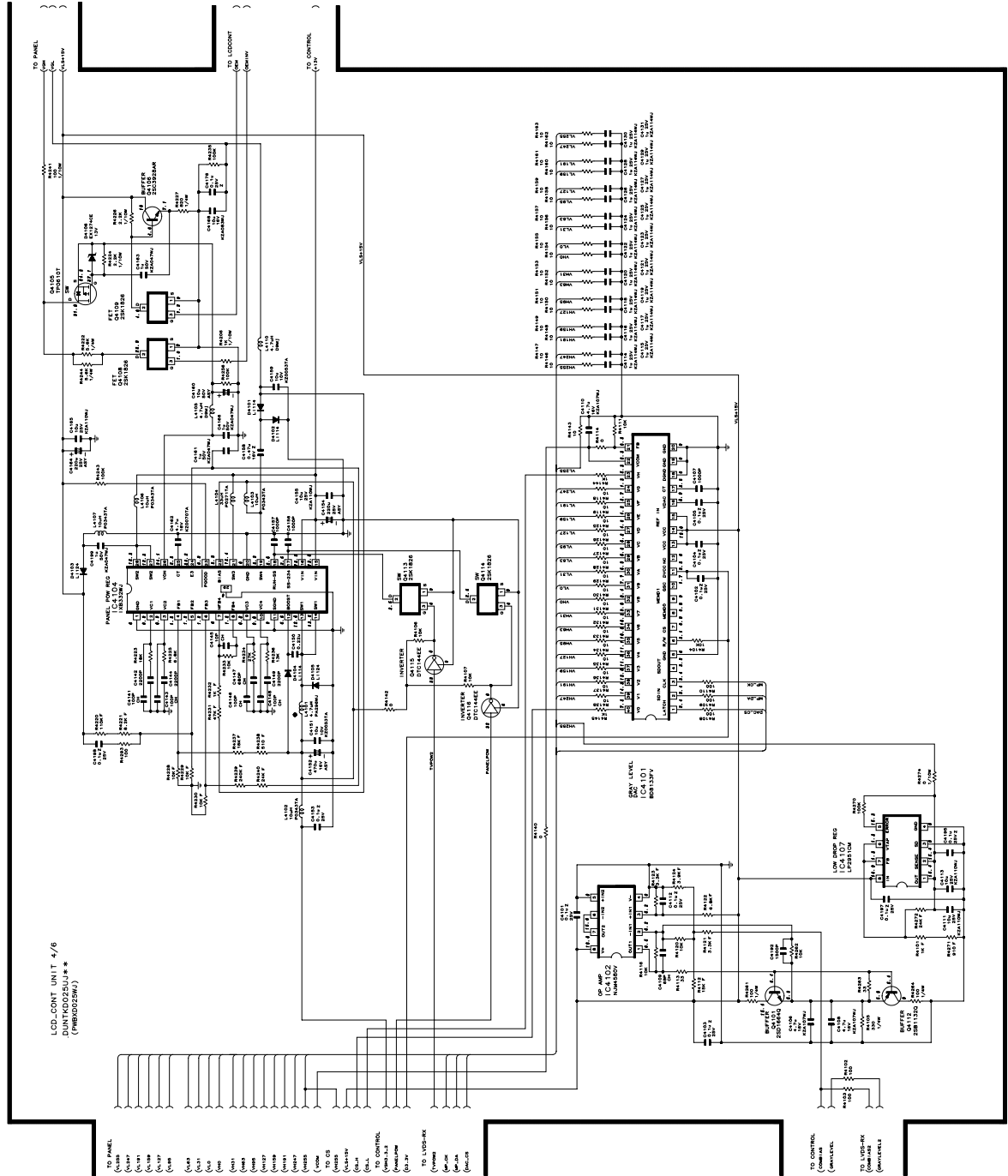
■ LCD Control Unit-1/6



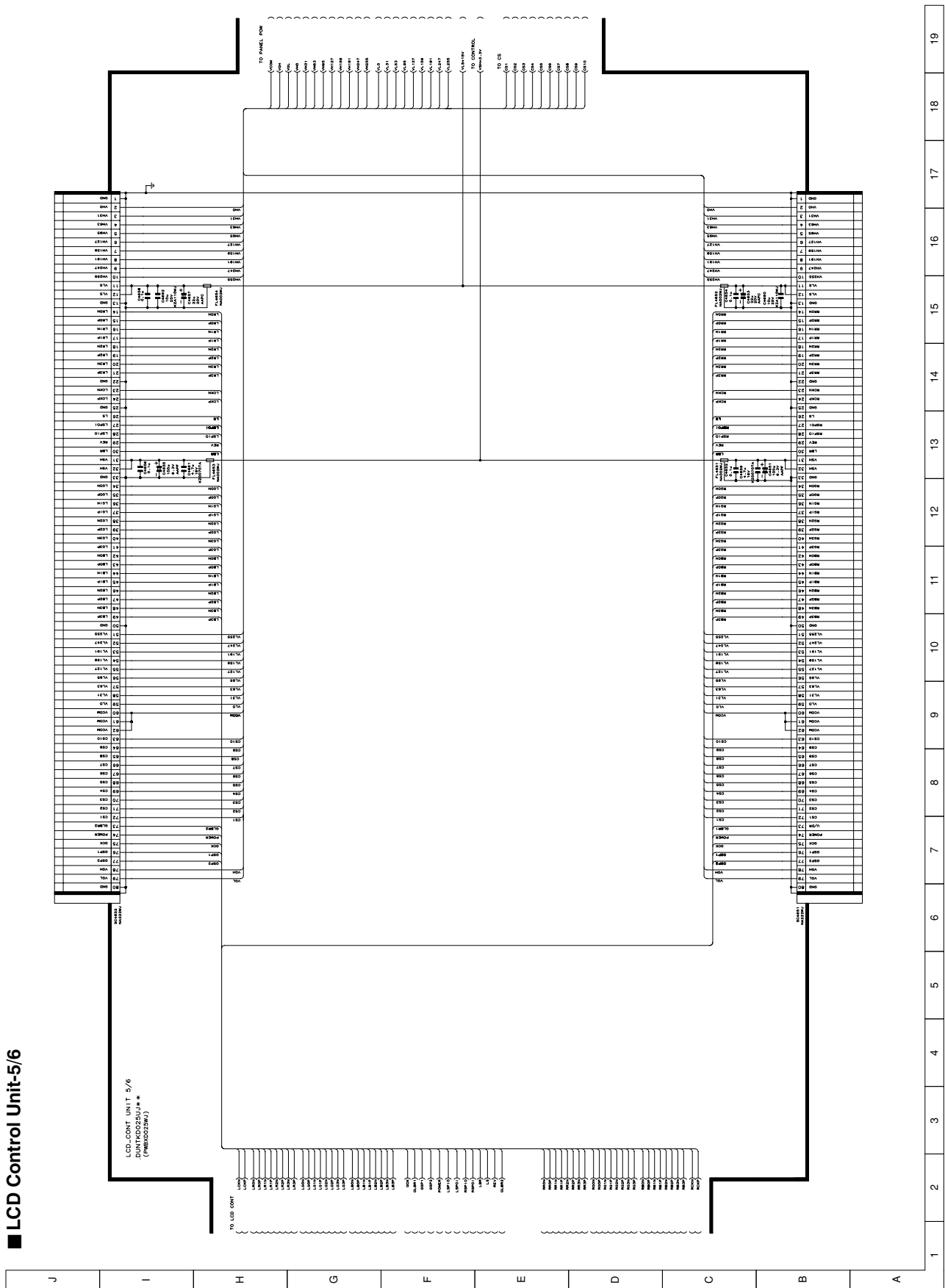
■ LCD Control Unit-2/6



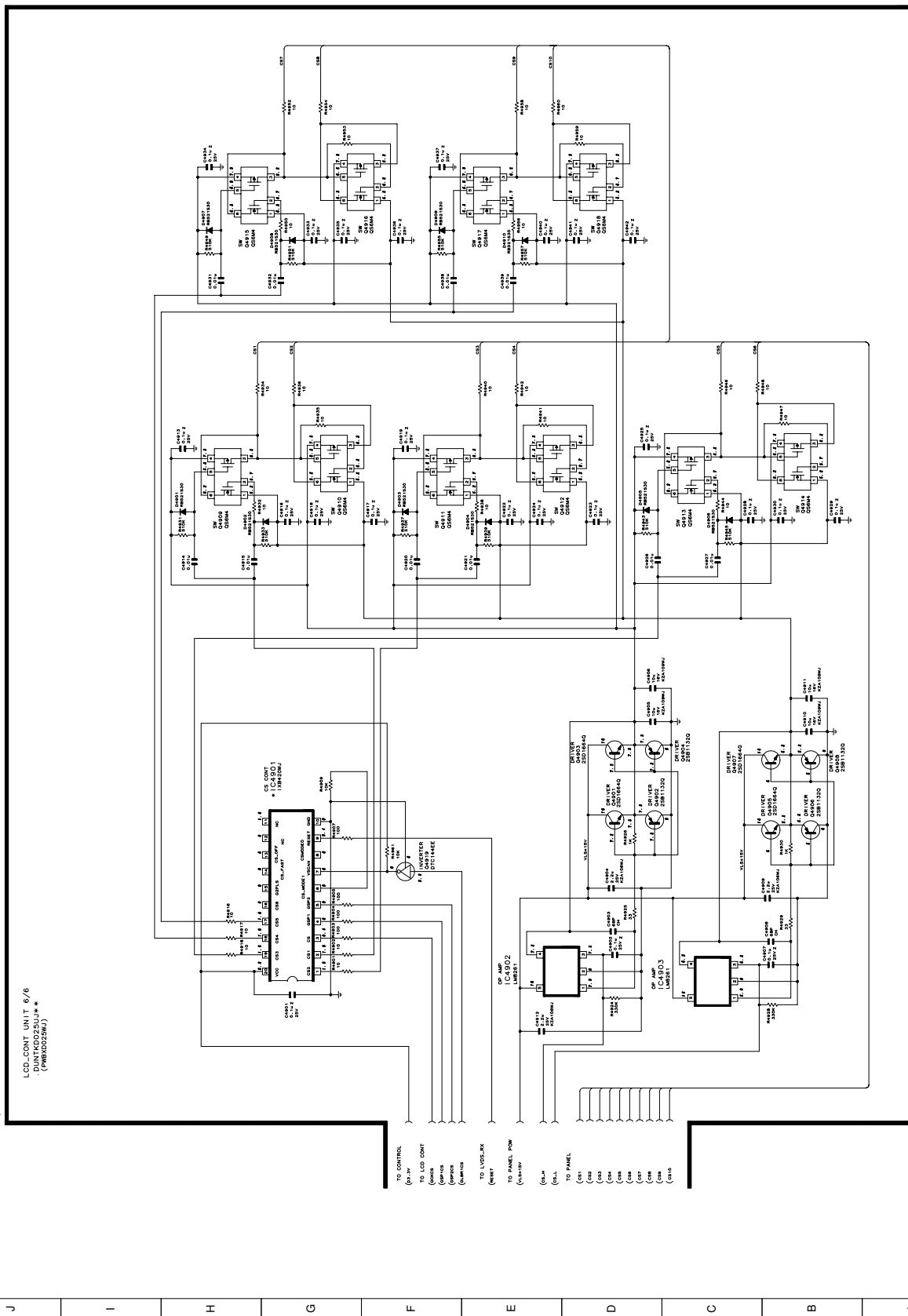
■ LCD Control Unit-4/6



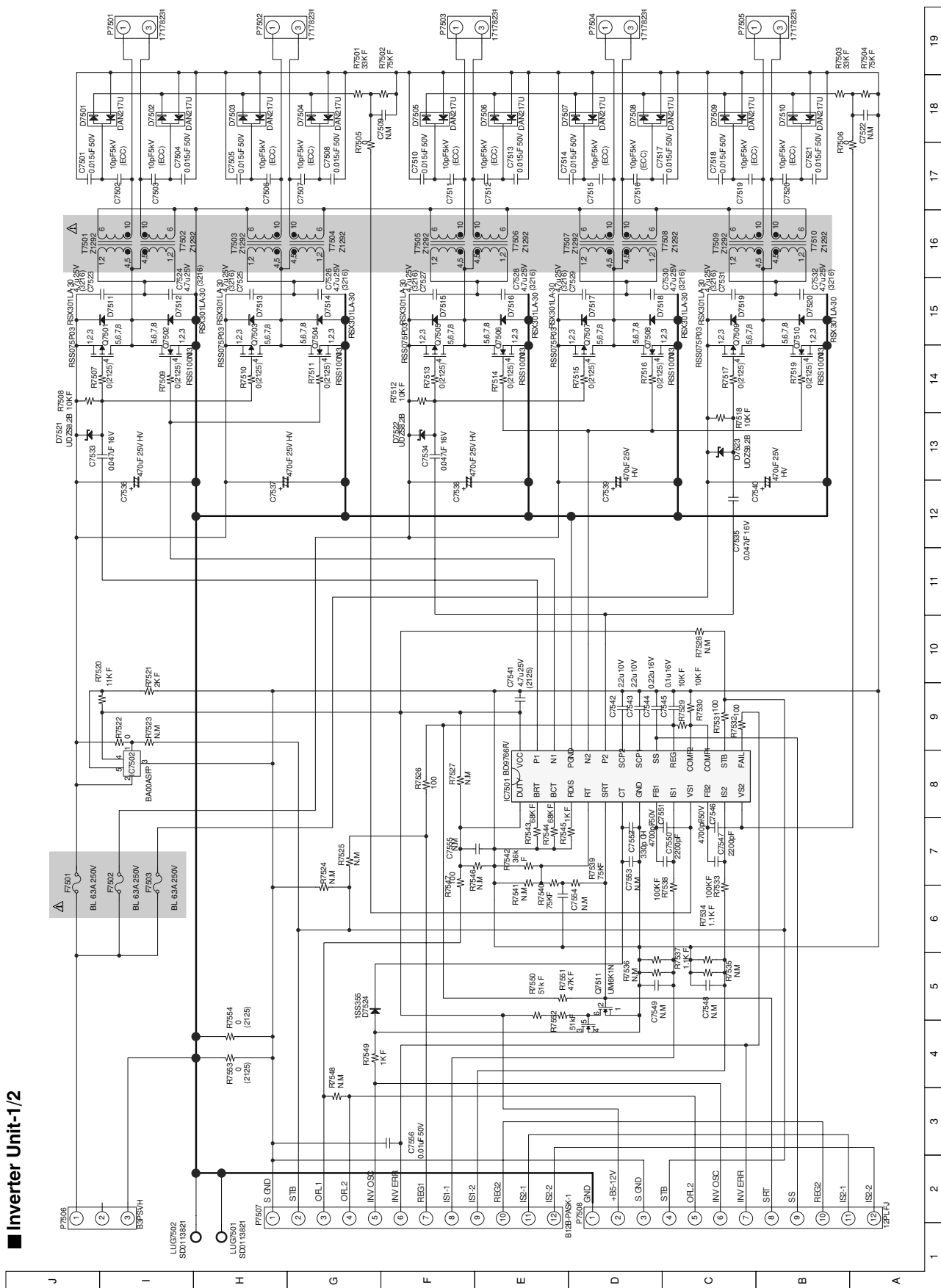
■ LCD Control Unit-5/6



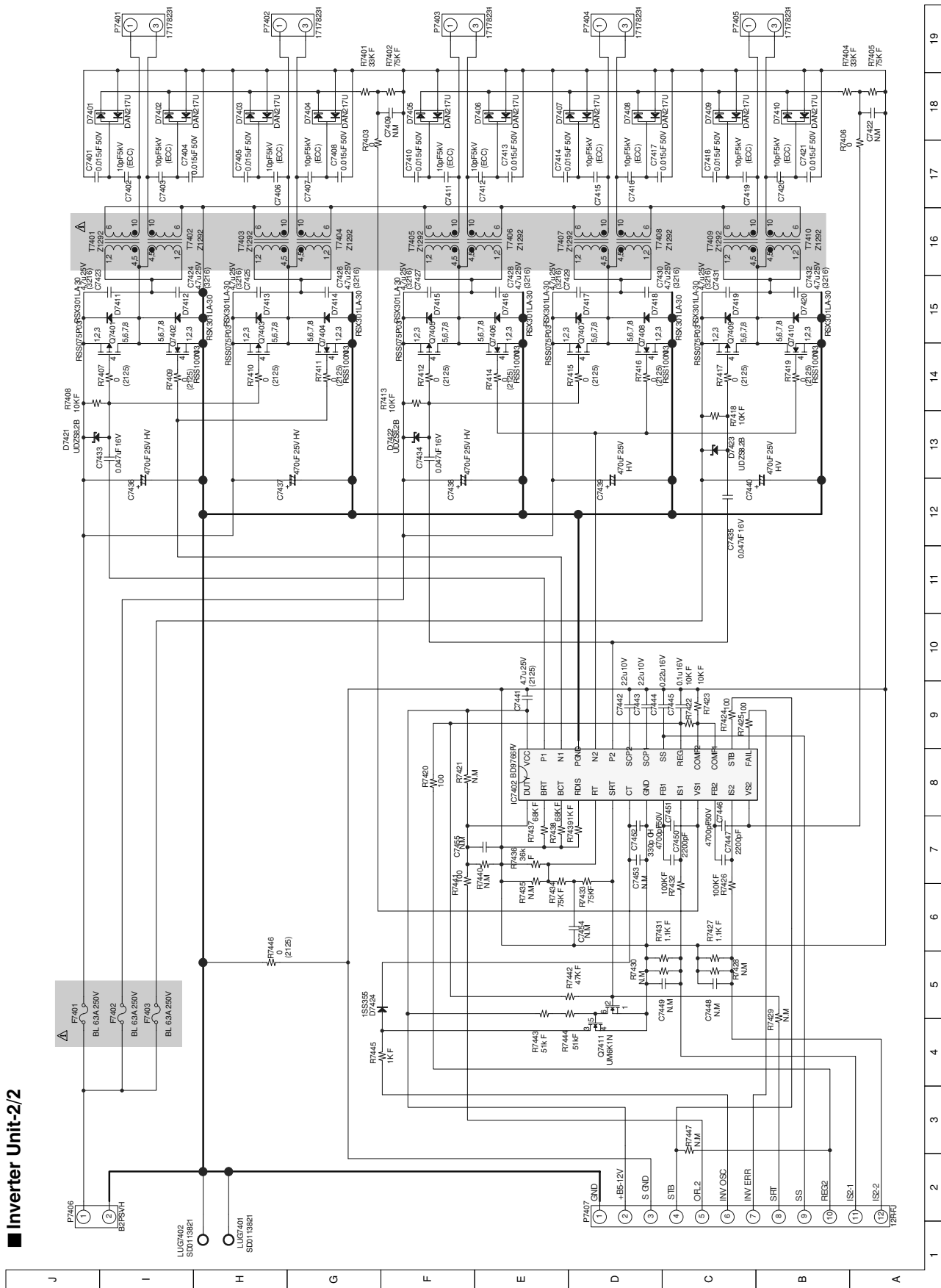
■ LCD Control Unit-6/6



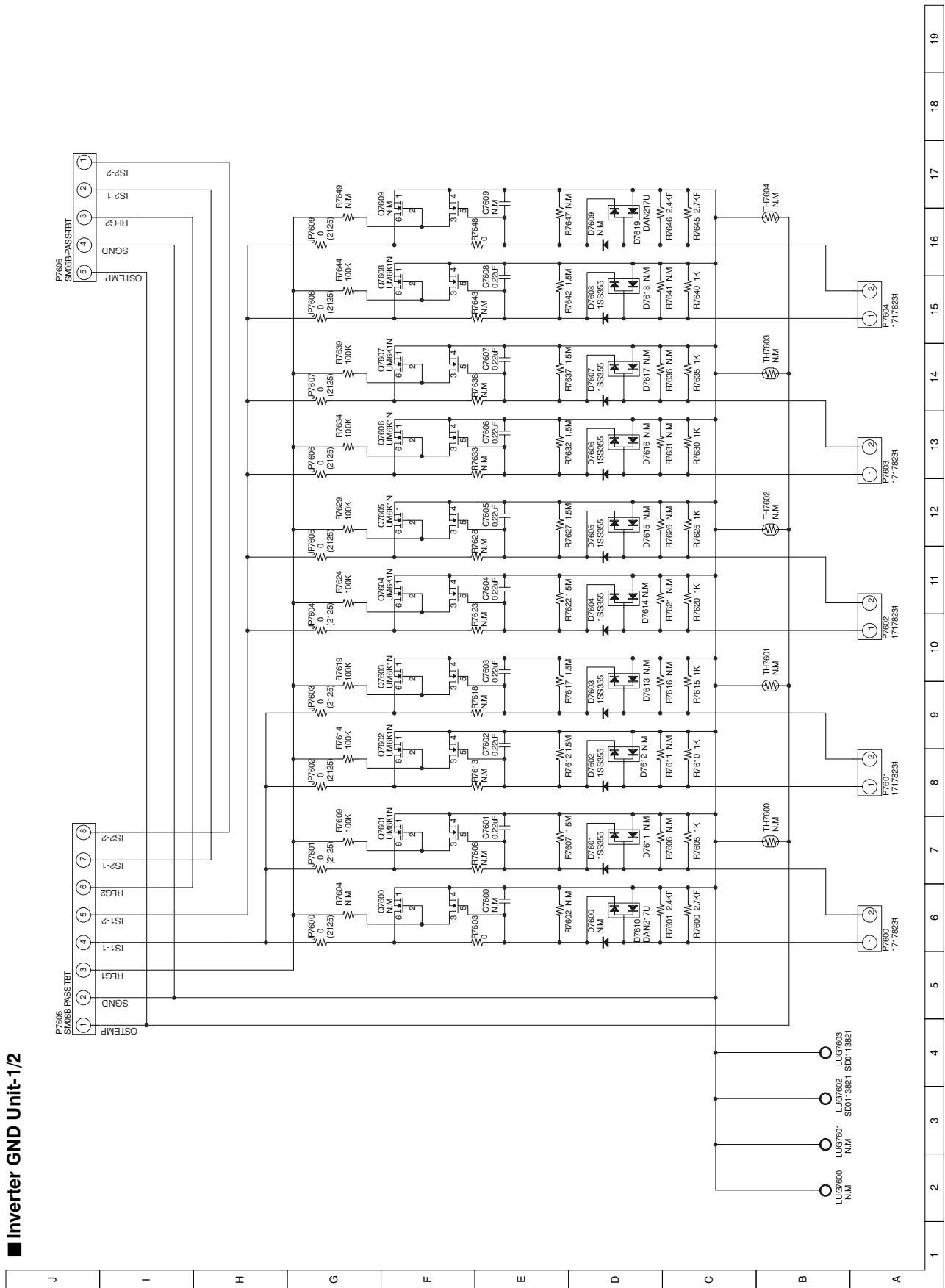
■ Inverter Unit-1/2



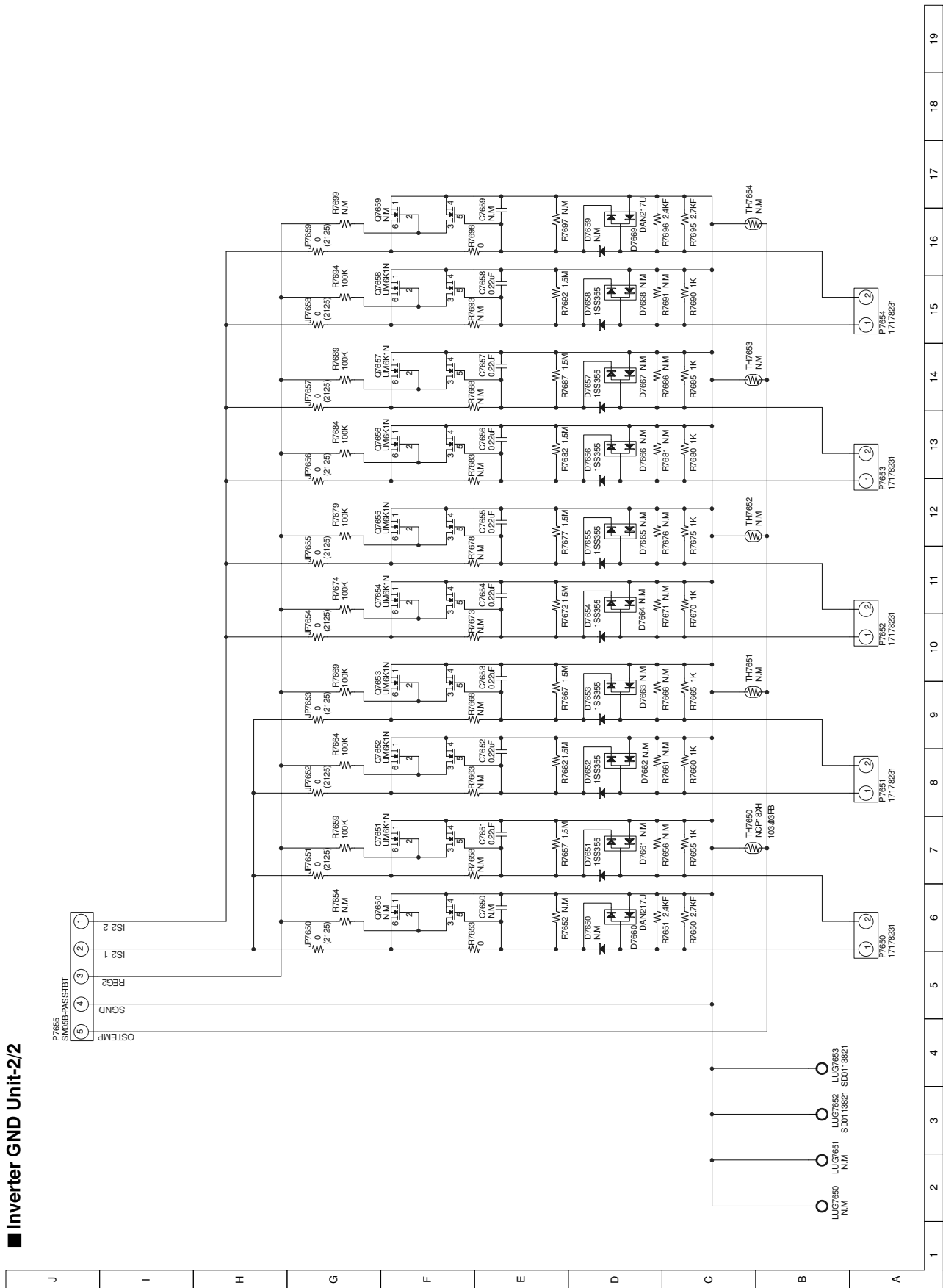
■ Inverter Unit-2/2

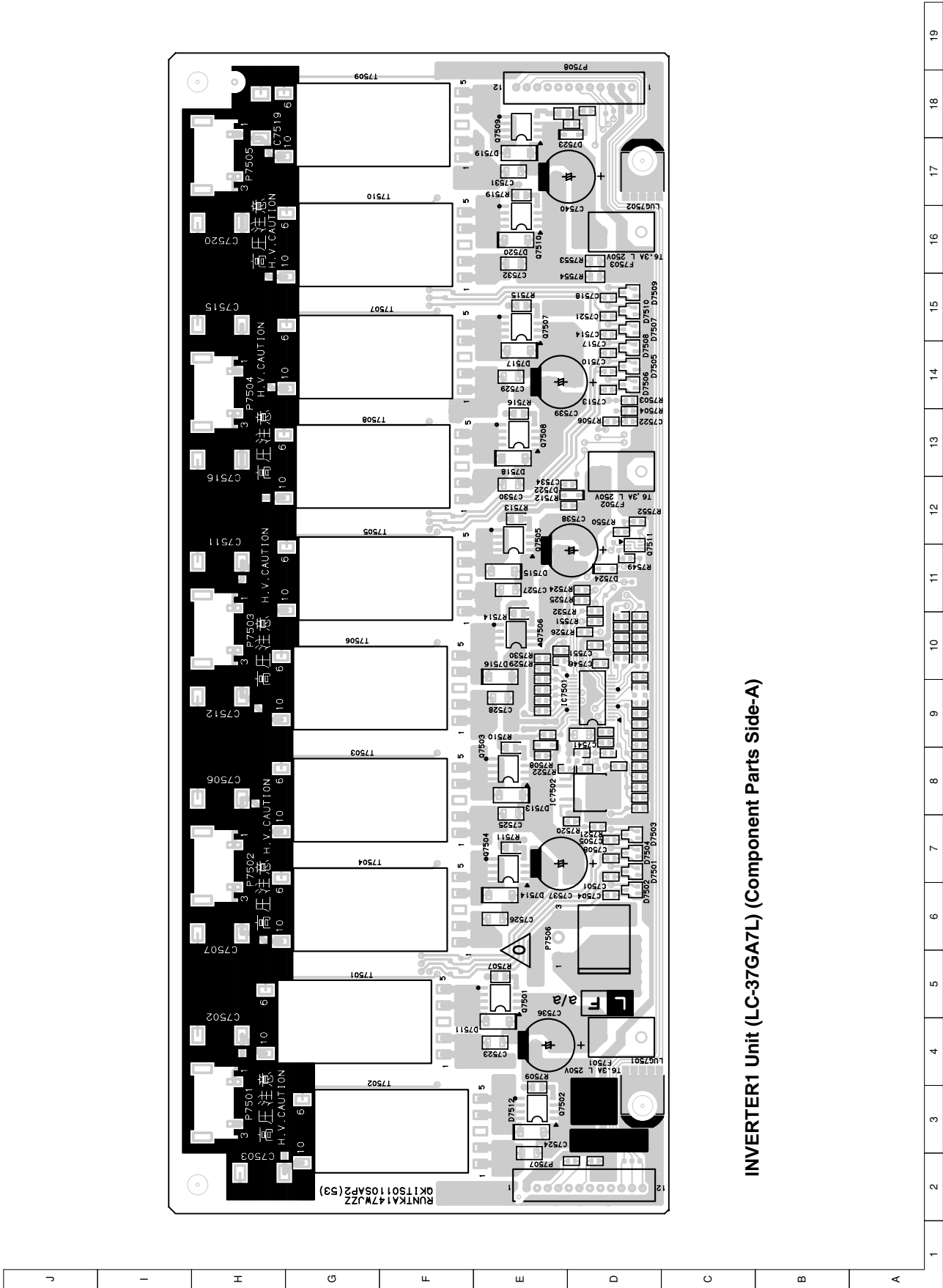


■ Inverter GND Unit-1/2

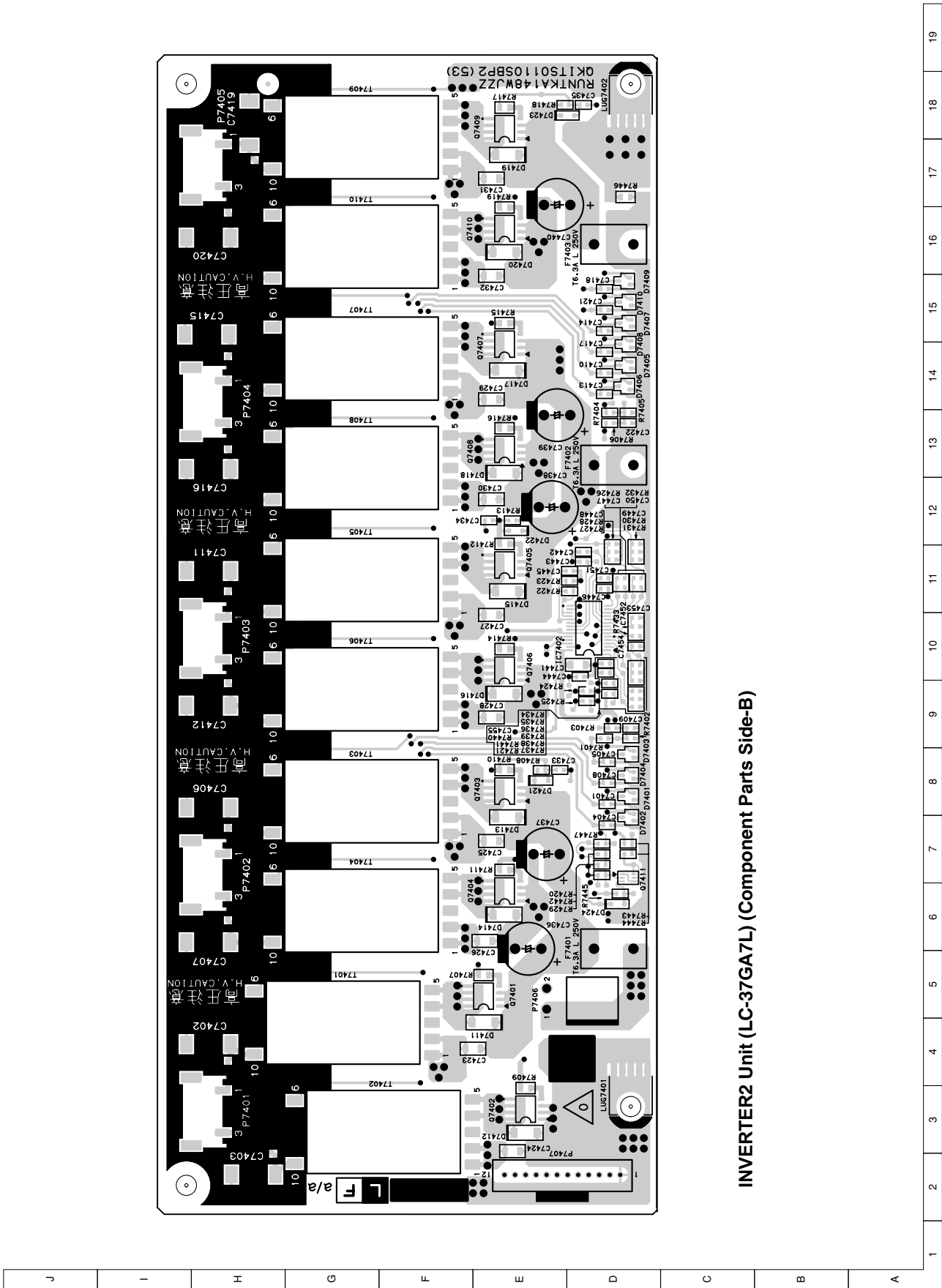


■ Inverter GND Unit-2/2



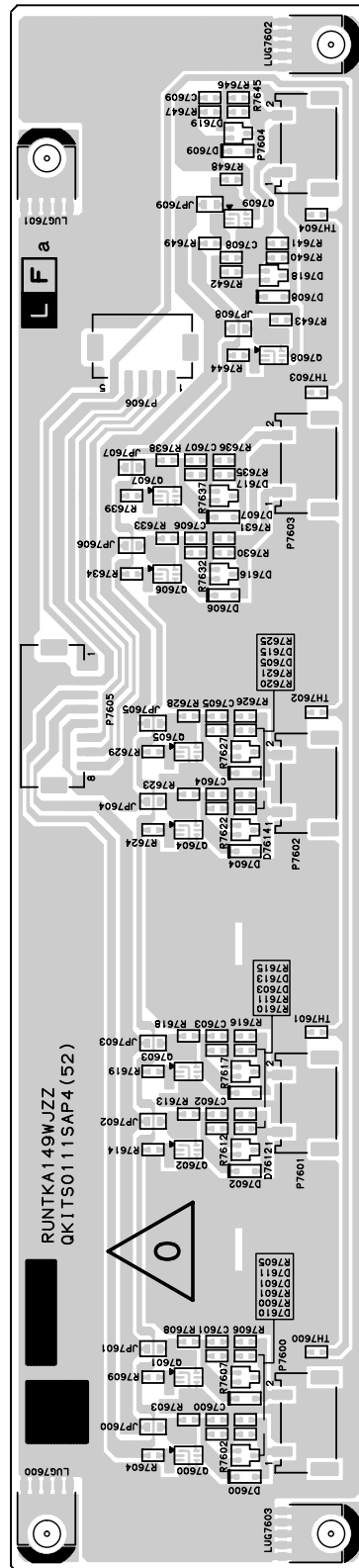


INVERTER1 Unit (LC-37GA7L) (Component Parts Side-A)

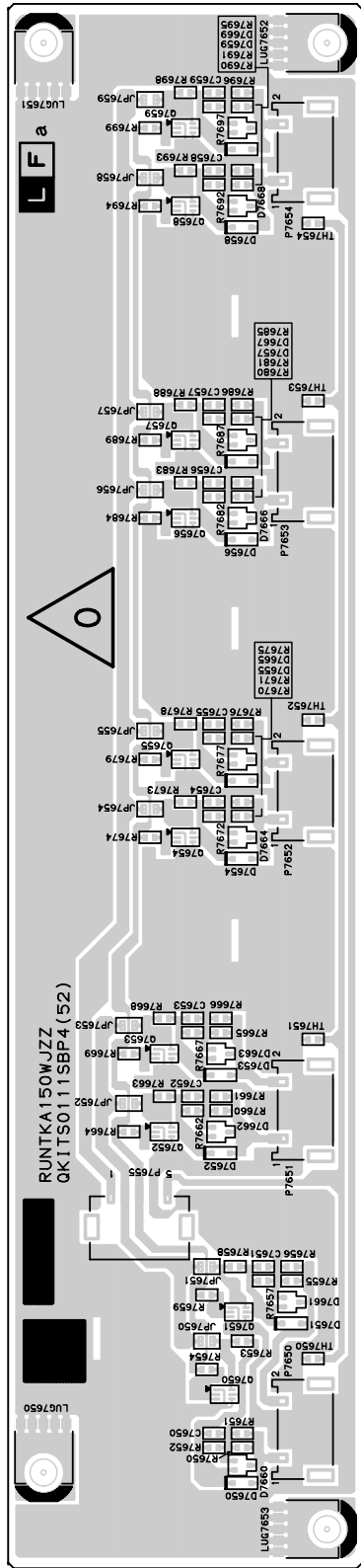


INVERTER2 Unit (LC-37GA7L) (Component Parts Side-B)

INVERTER1 GND Unit (LC-37GA7L) (Component Parts Side-A)



J	I	H	G	F	E	D	C	B	A
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INVERTER2 GND Unit (LC-37GA7L) (Component Parts Side-B)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
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